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(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT (57) Abstract Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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**SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION
PRODUCT**

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Technical Field

The present invention relates to newly identified polynucleotide sequences corresponding to transcription products of human genes, and to complete gene sequences associated therewith.

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Background

This invention relates to human genes. Identification and sequencing of human genes is a major goal of modern scientific research. The sequence of human genes is more than just a scientific curiosity. For example, by identifying genes and determining their sequences, scientists have been able to make large quantities of valuable human "gene products." These include human insulin, interferon, Factor VIII, tumor necrosis factor, human growth hormone, tissue plasminogen activator, and numerous other compounds. Additionally, knowledge of gene sequences can provide the key to treatment or cure of genetic diseases (such as muscular dystrophy and cystic fibrosis). The present invention represents a quantum leap forward in mankind's knowledge of human gene sequences.

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There are several basic concepts of molecular biology which figure prominently in the invention. A brief explanation of those concepts follows. Additional background information and definitions for scientific terms can be found

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in the literature. See, for example, "Glossary of Genetics, Classical and Molecular" by R. Rieger, A. Michaelis, and M.M. Green (Fifth Edition, Springer-Verlag, New York (1991)). The contents of this and other publications cited in the specification are incorporated by reference herein.

At an initial level, the present invention is based on identification and characterization of gene segments. Genes are the basic units of inheritance. Each gene is a string of connected bases called nucleotides. Most genes are formed of deoxyribonucleic acid, DNA. (Some viruses contain genes of ribonucleic acid, RNA.) The genetic information resides in the particular sequence in which the bases are arranged. A short sequence of nucleotides is often called a polynucleotide or an oligonucleotide.

Like genes, polypeptides are built from long strings of individual units. These units are amino acids. The nucleotide sequence of a gene tells the cell the sequence in which to arrange the amino acids to make the polypeptide encoded by that gene. In general, chains of up to about 200 amino acids are called polypeptides, while proteins are larger molecules made up of polypeptide subunits; both types of molecules are referred to generally herein as polypeptides. A triplet of nucleotides (codon) in DNA codes for each amino acid or signals the beginning or end of the message (anticodon). The term codon is also used for the corresponding (and complementary) sequences of three nucleotides in the mRNA into which the original DNA sequence is transcribed.

Generally, enzymes in the cell transcribe the permanent DNA of the gene into a temporary RNA copy, called messenger RNA or mRNA. The mRNA, in turn, can be translated into a polypeptide by the cell. This entire process is called gene expression, and the polypeptide is the gene product encoded by the gene.

Scientists have previously discovered how to reverse the transcription process and copy mRNA back into DNA using an

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enzyme called reverse transcriptase. The resulting is called complementary DNA, or cDNA. This is schematically shown in the single Figure. When substantially all of the mRNA from one cell or tissue is converted to cDNA at once and cloned into multiple copies of a recombinant vector to allow replication and manipulation in the laboratory, the result is called a cDNA library.

The various types of genes include those which code for polypeptides, those which are transcribed into RNA but are not translated into polypeptides, and those whose functional significance does not demand that they be transcribed at all. Most genes are found on large molecules of DNA located in chromosomes. Double stranded cDNA carries all the information of a gene. Each base of the first strand is joined to a complementary base (hybridized) in the second strand. The linear DNA molecules in chromosomes have thousands of genes distributed along their length. Chromosomes include both coding regions (coding for polypeptides) and noncoding regions; the coding regions represent only about three percent of the total chromosome sequence.

An individual gene has regulatory regions that include a promoter which directs expression of the gene, a coding region which can code for a polypeptide, and a termination signal. The regulatory DNA sequence is usually a noncoding region that determines if, where, when, and at what level a particular gene is expressed.

The coding regions of many genes are discontinuous, with coding sequences (exons) alternating with noncoding regions (introns). The final mRNA copy of the gene does not include these introns (which can be much longer than the coding region itself), although it does contain certain untranslated regions that usually do not code for the polynucleotide gene product. Untranslated sequences at the beginning and end of the mRNA are known as 5'- and 3'-untranslated regions,

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respectively. This nomenclature reflects the orientation of the nucleotide constituents of the mRNA.

A cDNA is a DNA copy of a messenger RNA, which contains all of the exons of a gene. The cDNA can be thought of as having three parts: an untranslated 5' leader, an uninterrupted polypeptide-coding sequence, and a 3' untranslated region. The untranslated leader and trailing sequences are important for initiation of translation, mRNA stability, and other functions. The untranslated leader and trailing sequences are called 5'- and 3'-untranslated sequences, respectively. The 3' untranslated sequence is usually longer than the 5' untranslated leader, and can be longer than the polypeptide-coding sequence. The untranslated regions typically have many, randomly-distributed stop codons, and do not display the nonrandom base arrangements found in coding sequences. The 5'-untranslated sequence is relatively short, generally between 20 and 200 bases. The 3'-untranslated sequence is often many times longer, up to several thousand bases.

The translated or coding sequence begins with a translational start codon (AUG or GUG) and ends with a translational stop codon (UAA, UGA, or UAG). Generally, translation begins at the first "start" codon on the mRNA and proceeds to the first "stop" codon. Coding sequences can be distinguished by their nonrandom distribution of bases; numerous computer algorithms have been developed to distinguish coding from noncoding regions in this way.

Human DNA differs from person to person. No two persons (except perhaps identical twins) have identical DNA. While the differences, called allelic variations or polymorphisms, are slight on a molecular level, they account for most of the physical and other observable differences between individuals. It has been estimated that approximately 14 million sequence polymorphism differences exist between individuals.

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The ability of one strand of DNA to attach or hybridize to a complementary strand has already been exploited for several purposes. For example, small pieces of DNA (15 to 25 base pairs long) can be made which will hybridize to longer strands of DNA which have a complementary sequence. These short "primers" can be selected such that they hybridize to a specific, unique location on the longer strand. Once the primers have hybridized to their target on the DNA, the polymerase chain reaction (PCR) can be employed to generate millions of copies of (or amplify) the particular segment of DNA between the locations to which two primers are bound. Briefly, this technique allows amplification of a DNA region situated between two convergent primers, using oligonucleotide primers that hybridize to opposite strands. Primer extension proceeds inward across the region between the two primers, and the product of DNA synthesis of one primer serves as a template for the other primer. Repeated cycles of DNA denaturation, annealing of primers, and extension result in an exponential increase in the number of copies of the region bounded by the primers.

Similarly, a labeled segment of single-stranded DNA can be hybridized to a longer DNA sequence, such as a chromosome, to mark a specific location on the longer sequence. Segments of DNA 50 bases long or longer that hybridize to a unique DNA location in the human genome are extremely unlikely to hybridize elsewhere in the human genome.

The Human Genome Project is an effort to sequence all human DNA (the human genome). The human genome is estimated to comprise 50,000 - 100,000 genes, up to 30,000 of which might be expressed in the brain (Sutcliffe, *Ann. Rev. Neurosci.* 11:157 (1988)). Once dedicated human chromosome sequencing begins in three to five years, it was expected that 12-15 years will be required to complete the sequence of the genome (Report of the Ad Hoc Program Advisory Committee on Complex Genomes, Reston, Va., Feb. 1988, D. Baltimore Ed. (NIH, Bethesda, Md, 1988)). At that rate, the majority of

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human genes would remain unknown for at least the next decade. The present invention can greatly accelerate the pace at which human genes can be identified and mapped. Most gene researchers, in conjunction with publication of their results in this field, submit sequence data to the GenBank database. Prior to the present invention, GenBank listed the sequences of only a few thousand human genes and less than two hundred human brain mRNAs (GenBank Release 66.0, December, 1990).

The role of sequencing complementary DNA (cDNA), reverse transcribed from mRNA, as a part of the human genome project has been vigorously debated since the idea of determining the complete nucleotide sequence of humans first surfaced. The coding sequence of all human genes represents most of the information content of the genome, but only 3-5% of the total DNA. In contrast, cDNA (which is only made from the transcription product of active genes) is one-half to three-fourths (the remainder being 5'- and 3'-untranslated sequence) meaningful genetic information. Thus, some have argued that cDNA sequencing should take precedence over genomic sequencing (Brenner, CIBA Found. Symp. 149:6 (1990)). However, until now, such arguments have not been heeded.

Genomic sequencing proponents have argued the difficulty of finding every mRNA expressed in all tissues, cell types, and developmental states, and that much valuable information from intronic and intergenic regions, including control and regulatory sequences, will be missed by cDNA sequencing. (Report of the Committee on Mapping and Sequencing the Human Genome, National Research Council (National Academy Press, Washington, D.C. 1988)). Further, sequencing of transcribed regions of the genome using cDNA libraries has heretofore been considered impractical or unsatisfactory. Libraries of cDNA were believed to be dominated by repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes comprising common or housekeeping sequences. It was believed that cDNA libraries would provide few sequences

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corresponding to structural and regulatory polypeptides or peptides. See, for example, Putney, et al., *Nature* 302:718-721 (1983). Putney, et al. sequenced over 150 clones from a rabbit muscle cDNA library and identified clones for 13 of the 19 known muscle polypeptides, including one new isotype but no unknown coding sequences.

Another perceived drawback of cDNA sequencing was that some mRNAs are abundant, and some are rare. The cellular quantities of mRNA from various genes can vary by several orders of magnitude. This led critics to believe that most information obtained from cDNA sequencing would be repetitious and useless.

The present invention demonstrates that, despite such skepticism, cDNA sequencing now provides a rapid method for obtaining enormous amounts of valuable genetic information and DNA products of great utility for the biotechnology and pharmaceutical industries. Not only can many distinct cDNAs be isolated and sequenced, even partial cDNAs can be used, with conventional, well-understood methods, to isolate entire genes, and to determine the chromosomal locations and biological functions of these genes. As is demonstrated here, fragments of only a few hundred bases are sufficient, in many cases, to identify the probable function of a new human gene if it is similar in structure to a gene from another animal, or from plants or bacteria. Similarly, even fragments of untranslated regions of a cDNA can be used to: i) isolate the coding sequence of the cDNA; ii) isolate the complete gene; iii) determine the position of the gene on a human chromosome, and hence the potential of the gene to cause a human genetic disease; and iv) determine the function of the gene by means of experiments in which the function of the native gene is disrupted by the addition of a short DNA fragment to the cell, e.g., using triple helix or antisense probes.

Because coding regions comprise such a small portion of the human genome, identification and mapping of transcribed

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regions and coding regions of chromosomes is of significant interest. There is a corresponding need for reagents for identifying and marking coding regions and transcribed regions of chromosomes. Furthermore, such human sequences are valuable for chromosome mapping, human identification, identification of tissue type and origin, forensic identification, and locating disease-associated genes (i.e., genes that are associated with an inherited human disease, whether through mutation, deletion, or faulty gene expression) on the chromosome.

SUMMARY OF THE INVENTION

Contrary to the expectations of the scientific community, cDNA screening and sequencing techniques have now been used to discover a large number of heretofore unknown human genes. Disclosed herein are over 2,400 new human polynucleotide sequences. These sequences could represent up to 5% of all human genes. The novelty of these sequences has been established through comparison to both nucleotide sequence databases and amino acid sequence databases. Surprisingly, over 80% of the sequences generated were unrelated to any sequences previously described in the literature.

The sequences of the present invention were ascertained using a fast approach to cDNA characterization. This approach could facilitate the tagging of most expressed human genes within a few years at a fraction of the cost of complete genomic sequencing, provide new genetic markers, provide new DNA-based therapeutics and diagnostics, and provide other valuable nucleotide reagents.

The sequences disclosed herein, styled Expressed Sequence Tags ("ESTs"), are markers for human genes actually transcribed *in vivo*. Techniques are disclosed for using these ESTs to obtain the full coding region of the corresponding gene. The use of ESTs, complete coding sequences, or fragments thereof for marking chromosomes, for

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mapping locations of expressed genes on chromosomes, for individual or forensic identification, for mapping locations of disease-associated genes, for identification of tissue type, and for preparation of antisense sequences, probes, and constructs is discussed in detail below. Unlike the random genomic DNA sequence tagged sites (STSS) (Olson et al., *Science* 245:1434 (1989)), ESTs point directly to expressed genes.

Various aspects of the present invention thus include the individual ESTs, corresponding partial and complete cDNA, genomic DNA, mRNA, antisense strands, triple helix probes, PCR primers, coding regions, and constructs. Also, where one skilled in the art is enabled by this specification to prepare expression vectors and polypeptide expression products, they are also within the scope of the present invention, along with antibodies, especially monoclonal antibodies, to such expression products.

BRIEF DESCRIPTION OF THE DRAWING

The single drawing Figure schematically illustrates the progression from chromosome to gene to mRNA to cDNA.

DETAILED DESCRIPTION OF THE INVENTION

The detailed description that follows provides not only the actual sequence of each new EST, but also explains how the ESTs were obtained, how to obtain the corresponding complete cDNA sequence and the corresponding genomic DNA sequence, how to make DNA constructs from the ESTs and corresponding sequences, how to use those sequences as reagents in molecular biology and other fields, how to produce gene products from the ESTs and corresponding sequences and antibodies to those gene products, and the functional categories of many ESTs and corresponding genes. Furthermore, numerous actual working examples and predictive

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examples are provided to demonstrate and exemplify numerous aspects of the invention.

I. ESTs from cDNA Libraries

5 The sequences of the present invention were isolated from commercially available and custom made cDNA libraries using a rapid screening and sequencing technique. In general, the method comprises applying conventional automated DNA sequencing technology to screening clones, advantageously
10 randomly selected clones, from a cDNA library. Preferably, the library is initially "enriched" through removal of ribosomal sequences and other common sequences prior to clone selection. According to the present method, ESTs are generated from partial DNA sequencing of the selected clones.
15 The ESTs of the present invention were generated using low redundancy of sequencing, typically a single sequencing reaction. While single sequencing reactions may have an accuracy as low as 97%, this nevertheless provides sufficient fidelity for identification of the sequence and design of PCR
20 primers.

 Most human genes can be identified by EST sequencing from libraries of cDNA copies of messenger RNAs. However, some genes are expressed only at specific times during embryonic development, or only in small amounts in a few
25 specific cell types. Other genes have mRNAs that are degraded very quickly by the cell in which they are expressed. If any of these are the case, transcripts of the gene will not be represented in cDNA libraries so the gene will not be identifiable by EST sequencing. A new method
30 called "exon amplification", however, can be used to isolate and identify transcripts of such genes.

 Exon amplification works by artificially expressing part or all of a gene that is contained in a cloned fragment of genomic DNA such as a cosmid or yeast artificial chromosome
35 (YAC). The gene is cloned into a special vector, designed at MIT, that uses control elements from virus genes to express

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the protein-coding exons of the human gene of interest. Exon trapping shows considerable promise as a general technique for identifying those genes in the human genome that cannot be found by cDNA cloning and EST sequencing. Exon amplification will also be useful for identifying the genes in regions of genomic DNA to which disease genes have been mapped. The exon amplification method can be used directly with the cosmid and YAC clones from human chromosomes that are being obtained by both NIH and DOE supported human genome centers. ESTs comprise DNA sequences corresponding to a portion of nuclear encoded messenger RNA. An EST is of sufficient length to permit: (1) amplification of the specific sequence from a cDNA library, e.g., by polymerase chain reaction (PCR); (2) use of a synthetic polynucleotide corresponding to a partial or complete sequence of the EST as a hybridization probe of a cDNA library, generally having 30 - 50 base pairs; or (3) unique designation of the pure cDNA clone from which the EST was derived (the EST clone) for use as a hybridization probe of a cDNA library. Preferably, EST-derived primer pairs and sequences amplify or detectably hybridize to a sequence from a genomic library.

It has been found that sufficient information is contained in the 150-400 base ESTs from one sequencing run to effect preliminary identification and exact chromosome mapping. Accordingly, the ESTs disclosed herein are generally at least 150 base pairs in length. The length of an EST is determined by the quality of sequencing data and the length of the cloned cDNA. Raw data from the automated sequencers is edited to remove low quality sequence at the end of the sequencing run. High quality sequences (usually a result of sequencing templates without excessive salt contamination) generally give about 400 bp of reliable sequence data; other sequences give fewer bases of reliable data. A 150 bp EST is long enough to be translated into a 50 amino acid peptide sequence. This length is sufficient to observe similarities when they exist in a database search. Furthermore, 150 bp is

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long enough to design PCR primers from each end of the sequence to amplify the complete EST. Sequences shorter than 150 bp are difficult to purify and use following PCR amplification. Furthermore, a 150 bp polynucleotide is likely to give a very strong signal with low background in a screen of a genomic library.

Finally, it is highly unlikely that a sequence of the same 150 bp exists in any genes in the genome besides the one tagged by the EST. Some closely related gene family members have very similar nucleotide sequences, but no examples of pairs of human genes with long segments of identical sequence have been reported to date. For instance, there are three known β -tubulin genes in humans. Several ESTs were found that matched one or another of these tubulin genes, but several new members of this gene family were also found and could be clearly distinguished from the three known members. ESTs that match perfectly to several different genes can be detected by hybridizing to chromosomes: if many chromosomal loci are observed, the sequence (or a close variant) is present in more than one gene. This problem can be circumvented by using the 3'-untranslated part of the cDNA alone as a probe for the chromosomal location or for the full-length cDNA or gene. The 3'-untranslated region is more likely to be unique within gene families, since there is no evolutionary pressure to conserve a coding function of this region of the mRNA.

As demonstrated in the Examples that follow, ESTs can be used to map the expressed sequence to a particular chromosome. In addition, ESTs can be expanded to provide the full coding regions, as detailed below. In this manner, previously unknown genes can be identified.

While a variety of cDNA libraries can be used to obtain ESTs, human brain cDNA libraries are exemplified and represent a preferred embodiment. Suitable cDNA libraries can be freshly prepared or obtained commercially, e.g., as shown in Examples 1, 2, and 11. The cDNA libraries from the

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desired tissue are preferably preprocessed by conventional techniques to reduce repeated sequencing of high and intermediate abundance clones and to maximize the chances of finding rare messages from specific cell populations. Preferably, preprocessing includes the use of defined composition prescreening probes, e.g., cDNA corresponding to mitochondria, abundant sequences, ribosomes, actins, myelin basic polypeptides, or any other known high abundance peptide; these prescreening probes used for preprocessing are generally derived from known ESTs. Other useful preprocessing techniques include subtraction, which preferentially reduces the population of certain sequences in the library (e.g., see A. Swaroop et al., *Nucl. Acids Res.* 19, 1954 (1991)), and normalization, which results in all sequences being represented in approximately equal proportions in the library (Patanjali et al, *Proc. Natl. Acad. Sci. USA* 88:1943 (1991)).

The cDNA libraries used in the present method will ideally use directional cloning methods so that either the 5' end of the cDNA (likely to contain coding sequence) or the 3' end (likely to be a non-coding sequence) can be selectively obtained."

Libraries of cDNA can also be generated from recombinant expression of genomic DNA. After they are amplified, ESTs can be obtained and sequenced, e.g., as illustrated in Example 11.

The sequences of the present invention include the specific sequences set forth in the Sequence Listing and designated SEQ ID NO: 1 - SEQ ID NO: 2412. In one aspect of this embodiment, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that comprise the cDNA coding sequences for polypeptides having less than 95% identity with known amino acid sequences (see Table 2) and more preferably less than 90% or 85% identity. In a second aspect, the invention relates to those sequences of SEQ ID NOS: 1 - 2412 that encode polypeptides having no similarity to known amino acid

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sequences (see Examples that follow). Precisely because they do not contain coding regions and are therefore more unique in their sequence structures, those sequences which meet neither of the preceding criteria can be most useful and are generally preferred for mapping.

Consistent with the NIH mission and its responsibilities to disseminate knowledge and share the tangible fruits of its research, the present inventors have taken a number of steps to facilitate sequence data and clone availability. All EST sequences have been submitted to GenBank (representing an addition equivalent to 7% of the human nucleotides in Release 69 of GenBank, September 1991). The corresponding cDNA clones have been submitted to the American Type Culture Collection and information on clones and sequences has been submitted to the Genome Data Base (Pearson, P. Nucl. Acids Res. 19 (Suppl.): 2237-9 (1991)).

II. Complete Coding Sequences from ESTs

The ESTs of the present invention generally represent relatively small coding regions or untranslated regions of human genes. Although most of these sequences do not code for a complete gene product, the ESTs of the present invention are highly specific markers for the corresponding complete coding regions. The ESTs are of sufficient length that they will hybridize, under stringent conditions, only with DNA for that gene to which they correspond. Suitably stringent conditions comprise conditions, for example, where at least 95%, preferably at least 97% or 98% identity (base pairing), is required for hybridization. This property permits use of the EST to isolate the entire coding region and even the entire sequence. Therefore, only routine laboratory work is necessary to parlay the unique EST sequence into the corresponding unique complete gene sequence.

Thus, each of the ESTs of the present invention "corresponds" to a particular unique human gene. Knowledge

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of the EST sequence permits routine isolation and sequencing of the complete coding sequence of the corresponding gene. The complete coding sequence is present in a full-length cDNA clone as well as in the gene carried on genomic clones. Therefore, each EST "corresponds" to a cDNA (from which the EST was derived), a complete genomic gene sequence, a polypeptide coding region (which can be obtained either from the cDNA or genomic DNA), and a polypeptide or amino acid sequence encoded by that region.

The first step in determining where an EST is located in the cDNA is to analyze the EST for the presence of coding sequence, e.g., as described in Example 14. The CRM program predicts the extent and orientation of the coding region of a sequence. Based on this information, one can infer the presence of start or stop codons within a sequence and whether the sequence is completely coding or completely non-coding. If start or stop codons are present, then the EST can cover both part of the 5'-untranslated or 3'-untranslated part of the mRNA (respectively) as well as part of the coding sequence. If no coding sequence is present, it is likely that the EST is derived from the 3'-untranslated sequence due to its longer length and the fact that most cDNA library construction methods are biased toward the 3' end of the mRNA.

One general procedure for obtaining complete sequences from ESTs is as follows:

1. Purify selected human DNA from an EST clone (the cDNA clone that was sequenced to give the EST), e.g., by endonuclease digestion using ECOR1, gel electrophoresis, and isolation of the aforementioned clone by removal from low-melting agarose gel.

2. Radiolabel the isolated insert DNA, e.g., with ³²P labels, preferably by nick translation or random primer labeling.

3. Use the labeled EST insert as a probe to screen a lambda phage cDNA library or a plasmid cDNA library.

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4. Identify colonies containing clones related to the probe cDNA and purify them by known purification methods.

5. Nucleotide sequence the ends of the newly purified clones to identify full length sequences.

5 6. Perform complete sequencing of full length clones by Exonuclease III digestion or primer walking. Northern blots of the mRNA from various tissues using at least part of the EST clone as a probe can optionally be performed to check the size of the mRNA against that of the purported full
10 length cDNA.

An EST is a specific tag for a messenger RNA molecule. The complete sequence of that messenger RNA, in the form of cDNA, can be determined using the EST as a probe to identify a cDNA clone corresponding to a full-length transcript,
15 followed by sequencing of that clone. The EST or the full-length cDNA clone can also be used as a probe to identify a genomic clone or clones that contain the complete gene including regulatory and promoter regions, exons, and introns.

20 ESTs are used as probes to identify the cDNA clones from which an EST was derived. ESTs, or portions thereof, can be nick-translated or end-labelled with P^{32} using polynucleotide kinase using labelling methods known to those with skill in the art (**Basic Methods in Molecular Biology**, L.G. Davis, M.D. Dibner, and J.F. Battey, ed., Elsevier Press, NY, 1986). The
25 lambda library can be directly screened with the labelled ESTs of interest or the library can be converted en masse to pBluescript (Stratagene, La Jolla, California) to facilitate bacterial colony screening. Both methods are well known in the art. Briefly, filters with bacterial colonies containing
30 the library in pBluescript or bacterial lawns containing lambda plaques are denatured and the DNA is fixed to the filters. The filters are hybridized with the labelled probe using hybridization conditions described by Davis et al. The
35 ESTs, cloned into lambda or pBluescript, can be used as positive controls to assess background binding and to adjust

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the hybridization and washing stringencies necessary for accurate clone identification. The resulting autoradiograms are compared to duplicate plates of colonies or plaques; each exposed spot corresponds to a positive colony or plaque. The colonies or plaques are selected, expanded and the DNA is isolated from the colonies for further analysis and sequencing.

The ESTs can additionally be used to screen Northern blots of mRNA obtained from various tissues or cell cultures, including the tissue of origin of the EST clone. Northern analysis will most often produce one to several positive bands. The bands can be selected for further study based on the predicted size of the mRNA.

Positive cDNA clones in phage lambda are analyzed to determine the amount of additional sequence they contain using PCR with one primer from the EST and the other primer from the vector. Clones with a larger vector-insert PCR product than the original EST clone are analyzed by restriction digestion and DNA sequencing to determine whether they contain an insert of the same size or similar as the mRNA size on a Northern blot.

Once one or more overlapping cDNA clones are identified, the complete sequence of the clones can be determined. The preferred method is to use exonuclease III digestion (McCombie, W.R., Kirkness, E., Fleming, J.T., Kerlavage, A.R., Iovannisci, D.M., and Martin-Gallardo, R., *Methods*: 3: 33-40, 1991). A series of deletion clones is generated, each of which is sequenced. The resulting overlapping sequences are assembled into a single contiguous sequence of high redundancy (usually three to five overlapping sequences at each nucleotide position), resulting in a highly accurate final sequence.

A similar screening and clone selection approach can be applied to obtaining cosmid or lambda clones from a genomic DNA library that contains the complete gene from which the EST was derived (Kirkness, E.F., Kusiak, J.W., Menninger, J.,

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Gocayne, J.D., Ward, D.C., and Venter, J.C. *Genomics* 10: 985-995 (1991). Although the process is much more laborious, these genomic clones can be sequenced in their entirety also. A shotgun approach is preferred to sequencing clones with
5 inserts longer than 10 kb (genomic cosmid and lambda clones). In shotgun sequencing, the clone is randomly broken into many small pieces, each of which is partially sequenced. The sequence fragments are then aligned to produce the final contiguous sequence with high redundancy. An intermediate
10 approach is to sequence just the promoter region and the intron-exon boundaries and to estimate the size of the introns by restriction endonuclease digestion (ibid.).

Using the sequence information provided herein, the polynucleotides of the present invention can be derived from
15 natural sources or synthesized using known methods. The sequences falling within the scope of the present invention are not limited to the specific sequences described, but include human allelic and species variations thereof and portions thereof of at least 15-18 bases. (Sequences of at
20 least 15-18 bases can be used, for example, as PCR primers or as DNA probes.) In addition, the invention includes the entire coding sequence associated with the specific polynucleotide sequence of bases described in the Sequence Listing, as well as portions of the entire coding sequence of
25 at least 15-18 bases and allelic and species variations thereof. Furthermore, to accommodate codon variability, the invention includes sequences coding for the same amino acid sequences as do the specific sequences disclosed herein. Finally, although the error rate in the automated sequencing
30 used in the present invention is small, there remains some chance of error. Therefore, claims to particular sequences should not be so narrowly construed as to require inclusion of erroneously identified bases or to exclude corrections.

Any specific sequence disclosed herein can be readily
35 screened for errors by resequencing each EST in both directions (i.e., sequence both strands of cDNA).

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The sequences, constructs, vectors, clones, and other materials comprising the present invention can advantageously be in enriched or isolated form. As used herein, "enriched" means that the concentration of the material is at least about 2, 5, 10, 100, or 1000 times its natural concentration (for example), advantageously 0.01%, by weight, preferably at least about 0.1% by weight. Enriched preparations of about 0.5%, 1%, 5%, 10%, and 20% by weight are also contemplated. Further, removal of clones corresponding to ribosomal RNA and "housekeeping" genes and clones without human cDNA inserts results in a library that is "enriched" in the desired clones.

The term "isolated" requires that the material be removed from its original environment (e.g., the natural environment if it is naturally occurring). For example, a naturally-occurring polynucleotide present in a living animal is not isolated, but the same polynucleotide, separated from some or all of the coexisting materials in the natural system, is isolated.

It is also advantageous that the sequences be in purified form. The term "purified" does not require absolute purity; rather, it is intended as a relative definition. Individual EST clones isolated from a cDNA library have been conventionally purified to electrophoretic homogeneity. The sequences obtained from these clones could not be obtained directly either from the library or from total human DNA. The cDNA clones are not naturally occurring as such, but rather are obtained via manipulation of a partially purified naturally occurring substance (messenger RNA). The conversion of mRNA into a cDNA library involves the creation of a synthetic substance (cDNA) and pure individual cDNA clones can be isolated from the synthetic library by clonal selection. Thus, creating a cDNA library from messenger RNA and subsequently isolating individual clones from that library results in an approximately 10^6 -fold purification of the native message. Purification of starting material or

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natural material to at least one order of magnitude, preferably two or three orders, and more preferably four or five orders of magnitude is expressly contemplated.

5 In a cDNA library there are many species of mRNA represented. Each cDNA clone can be interesting in its own right, but must be isolated from the library before further experimentation can be completed. In order to sequence any specific cDNA, it must be removed and separated (i.e. isolated and purified) from all the other sequences. This
10 can be accomplished by many techniques known to those of skill in the art. These procedures normally involve identification of a bacterial colony containing the cDNA of interest and further amplification of that bacteria. Once a cDNA is separated from the mixed clone library, it can be
15 used as a template for further procedures such as nucleotide sequencing.

Although claims to large numbers of ESTs and corresponding sequences are presented herein, the invention is not limited to these particular groupings of sequences.
20 Thus, individual sequences are considered as applicants' discoveries or inventions, as are subgroupings of sequences. All of the functional subgroupings set forth in the tables define groupings for which separate claims are contemplated as being within the scope of this invention. Moreover, in
25 addition to claims to individual clones, it is intended that the present disclosure also support claims to numerical subgroupings. Thus, subgroupings of 50 ESTs (and corresponding sequences) are contemplated (e.g., SEQ ID NOS 1-50, 51-100, 101-150, etc.) as being within the scope of
30 this invention, as are subgroupings of 5, 10, 25, 100, 200, and 500 ESTs and corresponding sequences.

III. DNA Constructs

35 The present invention also includes recombinant constructs comprising one or more of the sequences as broadly described above. The constructs comprise a vector, such as

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a plasmid or viral vector, into which a sequence of the invention has been inserted, in a sense or antisense orientation. In a preferred aspect of this embodiment, the construct further comprises regulatory sequences, including for example, a promoter, operably linked to the sequence. Large numbers of suitable vectors and promoters are known to those of skill in the art, and are commercially available. The following vectors are provided by way of example.

5 **Bacterial:** pBs, phagescript, ϕ X174, pBluescript SK, pBs KS, pNH8a, pNH16a, pNH18a, pNH46a (Stratagene); pTrc99A, pKK223-3, pKK233-3, pDR540, pRIT5 (Pharmacia).

10 **Eukaryotic:** pWLneo, pSV2cat, pOG44, pXT1, pSG (Stratagene); pSVK3, pBPV, pMSG, pSVL (Pharmacia).

 Promoter regions can be selected from any desired gene using CAT (chloramphenicol transferase) vectors or other vectors with selectable markers. Two appropriate vectors are pKK232-8 and pCM7. Particular named bacterial promoters include lacI, lacZ, T3, T7, gpt, lambda P_R, and trc. Eukaryotic promoters include CMV immediate early, HSV thymidine kinase, early and late SV40, LTRs from retrovirus, and mouse metallothionein-I. Selection of the appropriate vector and promoter is well within the level of ordinary skill in the art.

 In a further embodiment, the present invention relates to host cells containing the above-described construct. The host cell can be a higher eukaryotic cell, such as a mammalian cell, or a lower eukaryotic cell, such as a yeast cell, or the host cell can be a procaryotic cell, such as a bacterial cell. Introduction of the construct into the host cell can be effected by calcium phosphate transfection, DEAE dextran mediated transfection, or electroporation (Davis, L., Dibner, M., Battey, I., **Basic Methods in Molecular Biology**, (1986)).

 The constructs in host cells can be used in a conventional manner to produce the gene product coded by the recombinant sequence. Alternatively, the encoded polypeptide

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can be synthetically produced by conventional peptide synthesizers.

Certain ESTs have already been preliminarily categorized by analogy to related sequences in other organisms (see Table 2). Table 10 of Example 10 categorizes particular ESTs broadly as metabolic, regulatory, and structural sequences where known. Constructs comprising genes or coding sequences corresponding to each of these categories are, therefore, specifically and individually contemplated.

Table 11 more particularly separates 127 new ESTs into 13 categories using a different criteria. These are genes related to cell surface; developmental control; energy metabolism; kinase and phosphatase; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. Table 11 further identifies the EST by the particular gene product for which it apparently codes. Each of these categories individually comprises a preferred category of EST, and preferred constructs and resulting polypeptide can be prepared from those ESTs or the corresponding complete gene sequence.

IV. ESTs and Corresponding Sequences as Reagents

Each of the cDNA sequences identified herein (and the corresponding complete gene sequences) can be used in numerous ways as polynucleotide reagents. The sequences can be used as diagnostic probes for the presence of a specific mRNA in a particular cell type. In addition, these sequences can be used as diagnostic probes suitable for use in genetic linkage analysis (polymorphisms). Further, the sequences can be used as probes for locating gene regions associated with genetic disease, as explained in more detail below.

The EST and complete gene sequences of the present invention are also valuable for chromosome identification.

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Each sequence is specifically targeted to and can hybridize with a particular location on an individual human chromosome. Moreover, there is a current need for identifying particular sites on the chromosome. Few chromosome marking reagents based on actual sequence data (repeat polymorphisms) are presently available for marking chromosomal location. The present invention constitutes a major expansion of available chromosome markers. One hundred ESTs have already been mapped to chromosomes. Using the techniques described in Example 5 or 6, the remaining ESTs and the corresponding complete sequences can similarly be mapped to chromosomes. The mapping of ESTs and cDNAs to chromosomes according to the present invention is an important first step in correlating those sequences with genes associated with disease.

Briefly, sequences can be mapped to chromosomes by preparing PCR primers (preferably 15-25 bp) from the ESTs. Computer analysis of the ESTs is used to rapidly select primers that do not span more than one exon in the genomic DNA, thus complicating the amplification process. These primers are then used for PCR screening of somatic cell hybrids containing individual human chromosomes. Only those hybrids containing the human gene corresponding to the EST will yield an amplified fragment.

PCR mapping of somatic cell hybrids is a rapid procedure for assigning a particular EST to a particular chromosome. Three or more clones can be assigned per day using a single thermal cycler. Using the present invention with the same oligonucleotide primers, sublocalization can be achieved with panels of fragments from specific chromosomes or pools of large genomic clones in an analogous manner. Other mapping strategies that can similarly be used to map an EST to its chromosome include in situ hybridization, prescreening with labeled flow-sorted chromosomes and preselection by hybridization to construct chromosome specific cDNA libraries. Results of mapping ESTs to chromosomal segments are listed in Tables 3 and 4.

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Fluorescence in situ hybridization (FISH) of a cDNA clone to a metaphase chromosomal spread can be used to provide a precise chromosomal location in one step. This technique can be used with cDNA as short as 500 or 600 bases; however, clones larger than 2,000 bp have a higher likelihood of binding to a unique chromosomal location with sufficient signal intensity for simple detection. FISH requires use of the clone from which the EST was derived, and the longer the better. 2,000 bp is good, 4,000 is better, and more than 4,000 is probably not necessary to get good results a reasonable percentage of the time. For a review of this technique, see Verma et al., **Human Chromosomes: a Manual of Basic Techniques**. Pergamon Press, New York (1988).

Reagents for chromosome mapping can be used individually (to mark a single chromosome or a single site on that chromosome) or as panels of reagents (for marking multiple sites and/or multiple chromosomes). Reagents corresponding to noncoding regions of the genes actually are preferred for mapping purposes. Coding sequences are more likely to be conserved within gene families, thus increasing the chance of cross hybridizations during chromosomal mapping (see Tables 8 and 9).

Once a sequence has been mapped to a precise chromosomal location, the physical position of the sequence on the chromosome can be correlated with genetic map data. (Such data are found, for example, in V. McKusick, **Mendelian Inheritance in Man** (available on line through Johns Hopkins University Welch Medical Library).) The relationship between genes and diseases that have been mapped to the same chromosomal region are then identified through linkage analysis (coinheritance of physically adjacent genes).

Next, it is necessary to determine the differences in the cDNA or genomic sequence between affected and unaffected individuals. If a mutation is observed in some or all of the affected individuals but not in any normal individuals, then

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the mutation is likely to be the causative agent of the disease.

With current resolution of physical mapping and genetic mapping techniques, a cDNA precisely localized to a chromosomal region associated with the disease could be one of between 50 and 500 potential causative genes. (This assumes 1 megabase mapping resolution and one gene per 20 kb.)

Comparison of affected and unaffected individuals generally involves first looking for structural alterations in the chromosomes, such as deletions or translocations that are visible from chromosome spreads or detectable using PCR based on that cDNA sequence. Ultimately, complete sequencing of genes from several individuals is required to confirm the presence of a mutation and to distinguish mutations from polymorphisms.

In addition to the foregoing, the sequences of the invention, as broadly described, can be used to control gene expression through triple helix formation or antisense DNA or RNA, both of which methods are based on binding of a polynucleotide sequence to DNA or RNA. Polynucleotides suitable for use in these methods are usually 20 to 40 bases in length and are designed to be complementary to a region of the gene involved in transcription (triple helix - see Lee et al, *Nucl. Acids Res.* 6: 3073 (1979); Cooney et al, *Science* 241: 456 (1988); and Dervan et al, *Science* 251: 1360 (1991)) or to the mRNA itself (antisense - Okano, *J. Neurochem.* 56: 560 (1991); *Oligodeoxynucleotides as Antisense Inhibitors of Gene Expression*, CRC Press, Boca Raton, FL (1988)). Triple helix formation optimally results in a shut-off of RNA transcription from DNA, while antisense RNA hybridization blocks translation of an mRNA molecule into polypeptide. Both techniques have been demonstrated to be efficient in model systems. Information contained in the sequences of the present invention is necessary for the design of an antisense or triple helix oligonucleotide.

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The present invention is also useful tool in gene therapy, which requires isolation of the disease-associated gene in question as a prerequisite to the insertion of a normal gene into an organism to correct a genetic defect.
5 high specificity of the cDNA probes according to this invention have promise of targeting such gene locations in a highly accurate manner.

The sequences of the present invention, as broadly defined, are also useful for identification of individuals
10 from minute biological samples. The United States military, for example, is considering the use of restriction fragment length polymorphism (RFLP) for identification of its personnel. In this technique, an individual's genomic DNA is digested with one or more restriction enzymes, and probed on
15 a Southern blot to yield unique bands for identifying personnel. This method does not suffer from the current limitations of "Dog Tags" which can be lost, switched, or stolen, making positive identification difficult. The sequences of the present invention are useful as additional
20 DNA markers for RFLP.

However, RFLP is a pattern based technique, which does not directly focus on the actual DNA sequence of the individual. The sequences of the present invention can be used to provide an alternative technique that determines the
25 actual base-by-base DNA sequence of selected portions of an individual's genome. These sequences can be used to prepare PCR primers for amplifying and isolating such selected DNA. One can, for example, take an EST of the invention and prepare two PCR primers from the 5' and 3' ends of the EST.
30 These are used to amplify an individual's DNA, corresponding to the EST. The amplified DNA is sequenced.

Panels of corresponding DNA sequences from individuals, made this way, can provide unique individual identifications, as each individual will have a unique set of such DNA
35 sequences, due to allelic differences. The sequences of the present invention can be used to particular advantage to

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obtain such identification sequences from individuals and from tissue, as explained in Examples 12 - 14.

5 The EST sequences from Examples 1 and 2 and the complete sequences from Example 13 uniquely represent portions of the human genome. Allelic variation occurs to some degree in the coding regions of these sequences, and to a greater degree in the noncoding regions. It is estimated that allelic variation between individual humans occurs with a frequency of about once per each 500 bases. Each of the ESTs or complete coding sequences comprising a part of the present invention can, to some degree, be used as a standard against which DNA from an individual can be compared for identification purposes. Because greater numbers of polymorphisms occur in the noncoding regions, fewer sequences are necessary to differentiate individuals. The noncoding sequences of Table 9 for example, could comfortably provide positive individual identification with a panel of perhaps 100 to 1,000 primers which each yield a noncoding amplified sequence of 100 bp. If predicted coding sequences, such as those from Table 6, are used, a more appropriate number of primers for positive individual identification would be 500-2,000.

25 If a panel of reagents from ESTs or complete sequences of this invention is used to generate a unique ID database for an individual, those same reagents can later be used to identify tissue from that individual. Positive identification of that individual, living or dead can be made from extremely small tissue samples.

30 Another use for DNA-based identification techniques is in forensic biology. PCR technology can be used to amplify DNA sequences taken from very small biological samples such as tissues, e.g., hair or skin, or body fluids, e.g., blood, saliva, semen, etc. In one prior art technique, gene sequences are amplified at specific loci known to contain a large number of allelic variations, for example the DQ α class II HLA gene (Erlich, H., PCR Technology, Freeman and Co.

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(1992)). Once this specific area of the genome is amplified, it is digested with one or more restriction enzymes to yield an identifying set of bands on a Southern blot probed with DNA corresponding to the DQ α class II HLA gene.

5 The sequences of the present invention can be used to provide polynucleotide reagents specifically targeted to additional loci in the human genome, and can enhance the reliability of DNA-based forensic identifications. Those sequences targeted to noncoding regions (see, e.g., Tables 8
10 and 9) are particularly appropriate. As mentioned above, actual base sequence information can be used for identification as an accurate alternative to patterns formed by restriction enzyme generated fragments. Reagents for obtaining such sequence information are within the scope of
15 the present invention. Such reagents can comprise complete ESTs or corresponding coding regions, or fragments of either of at least 15 bp, preferably at least 18 bp.

 There is also a need for reagents capable of identifying the source of a particular tissue. Such need arises, for
20 example, in forensics when presented with tissue of unknown origin. Appropriate reagents can comprise, for example, DNA probes or primers specific to particular tissue prepared from the ESTs or complete sequences of the present invention. Panels of such reagents can identify tissue by species and/or
25 by organ type. In a similar fashion, these reagents can be used to screen tissue culture for contamination.

V. Production of Polypeptide Corresponding to ESTs

 As previously explained, each EST corresponds not only
30 to a coding region, but also to a polypeptide. Once the coding sequence is known, or the gene is cloned which encodes the polypeptide, conventional techniques in molecular biology can be used to obtain the polypeptide.

 At the simplest level, the amino acid sequence encoded
35 by the polynucleotide sequence can be synthesized using commercially available peptide synthesizers. This is

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particularly useful in producing small peptides and fragments of larger polypeptides. (Fragments are useful, for example, in generating antibodies against the native polypeptide.)

Alternatively, the DNA encoding the desired polypeptide
5 can be inserted into a host organism and expressed. The organism can be a bacterium, yeast, cell line, or multicellular plant or animal. The literature is replete with examples of suitable host organisms and expression techniques. For example, naked polynucleotide (DNA or mRNA)
10 can be injected directly into muscle tissue of mammals, where it is expressed. This methodology can be used to deliver the polypeptide to the animal, or to generate an immune response against a foreign polypeptide. Wolff, et al., *Science* 247:1465 (1990); Felgner, et al., *Nature* 349:351 (1991).
15 Alternatively, the coding sequence, together with appropriate regulatory regions (i.e., a construct), can be inserted into a vector, which is then used to transfect a cell. The cell (which may or may not be part of a larger organism) then expresses the polypeptide. (See Example 25.)

20 Antibodies generated against the polypeptide corresponding to a sequence of the present invention can be obtained by direct injection of the naked polypeptide into an animal (as above) or by administering the polypeptide to an animal, preferably a nonhuman. The antibody so obtained will
25 then bind the polypeptide itself. In this manner, even a sequence encoding only a fragment of the polypeptide can be used to generate antibodies binding the whole native polypeptide. Such antibodies can then be used to isolate the polypeptide from tissue expressing that polypeptide.
30 Moreover, a panel of such antibodies, specific to a large number of polypeptides, can be used to identify and differentiate such tissue.

VI. Examples

35 Certain aspects of the present invention are described in greater detail in the non-limiting Examples that follow.

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EXAMPLE 1

cDNA Sequences Determined by Random
Clone Selection: First set

5

METHODOLOGY:

With reference to the data presented in Table 1, lambda ZAP libraries were converted en masse to pBluescript plasmids, transfected into E. coli XL1-Blue cells, and plated on X-gal/IPTG/ampicillin plates. A total of 1058 clones were picked at random from three human brain cDNA libraries: fetal brain, two-year-old hippocampus, and two-year-old temporal cortex (Stratagene catalog #936206, 936205, 935, respectively. Stratagene, 11099 N. Torrey Pines Rd., La Jolla, CA 92037). An analysis of these clones is summarized in Table I (see below). In addition, clones selected from the hippocampus library were also analyzed after subtractive hybridization with the fibroblast library. These results are listed in the "Hippocampus Subtracted" column of Table 1.

Templates for DNA sequencing were PCR products or plasmids prepared by the alkaline lysis method. About half of the templates prepared by PCR failed to yield an amplified fragment suitable for sequencing. This was primarily due to use of PCR conditions that minimized the need for further purification of the product but also selected against amplification of long inserts (5 μ l fresh or frozen overnight culture of E. coli carrying the pBluescript plasmid, 7.5 μ M each dNTP, and 0.1 μ M each primer for 35 cycles: 94°C, 40 sec; 55°C, 40 sec; 72°C, 90 sec). A further percentage of the PCR-generated templates failed to sequence, largely due to primer-dimer or other amplification artifacts. Qiagen™ columns improved the percentage of plasmid templates, increasing the yields of usable sequence from about 60% with a standard alkaline lysis protocol to over 90%. Overall, 117 PCR-generated templates and 497 plasmid templates resulted in usable sequence. Dideoxy chain termination sequencing reactions were performed with fluorescent dye-labeled M13

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universal or reverse primers. After a cycle sequencing protocol, carried out in a Perkin-Elmer thermal cycler, sequencing reactions were run on an Applied Biosystems, Inc. (Foster City, CA) 373A automated DNA sequencer. (Cycle sequencing was performed in a Perkin Elmer Thermal Cycler for 15 cycles of 95°C, 30 sec; 60°C, 1 sec; 70°C, 60 sec and 15 cycles of 95°C, 30 sec; 70°C, 60 sec with the Applied Biosystems, Inc. Taq Dye Primer Cycle Sequencing Core Kit protocol). Some sequencing reactions were performed on an ABI robotic workstation (Cathcart, *Nature* 347: 310 (1990) hereby incorporated by reference).

RESULTS:

Singe-run DNA sequence data were obtained from 609 randomly chosen cDNA clones. The number of clones sequenced from each library is summarized in Table 1. Double-stranded cDNA clones in the pBluescript vector were sequenced by a cycle sequencing protocol with dye-labeled primers and Applied Biosystems, Inc. 373A DNA Sequences. The average length of usable sequence was 397 bases with a standard deviation of 99 bases.

Subtractive hybridization has been used successfully to reduce the population of highly represented sequences in a cDNA library by selectively removing sequences shared by another library. (Schmid and Girou, *Neurochem.* 48: 307 (1987); Fargnoli et al, *Anal. Biochem.* 187: 364 (1990); Duguid and Dinauer, *Nucl. Acids. Res.* 18: 2789 (1990); Schweinfest, et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Travis and Sutcliffe, *Proc. Natl. Acad. Sci. USA* 85: 1696 (1988); Kato, *Eur. J. Neurosci.* 2: 704 (1990)). Subtractive hybridization was therefore tested as a way of enhancing the number of brain-specific clones in the hippocampus library by hybridizing the hippocampus library with a WI38 human lung fibroblast cell line cDNA library and removing the common sequences (Schweinfest et al, *Genet. Anal. Techn. Appl.* 7: 64 (1990); Sive and St. John, *Nucl. Acids Res.* 16: 10937

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(1988)). Clones from this subtraction are listed in the column "Hippocampus Subtracted" in Table 1.

The EST sequences from this Example 1 are identified as SEQ ID NOS 1-315.

TABLE 1. cDNA Library Composition Determined
By Random Clone Sequencing

EST Category	Hippocampus		Hippocampus Subtracted		Fetal Brain		Temporal Cortex	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Databases Match--Human								
Mitochondrial Genes	48	12.8	10	8.6	3	7.9	6	7.5
Repeats: Alu, Line-1, etc.	39	10.4	14	12.2	6	15.8	0	0
Ribosomal RNA	10	2.7	7	6.0	0	0	11	13.8
Other Nuclear Genes	32	8.6	7	6.0	4	10.5	0	0
Database Match--Other	32	8.6	7	6.0	5	13.2	4	5.0
No Database Match	160	42.8	44	37.9	20	52.6	6	7.5
poly A Insert	53	14.1	24	20.7	0	0	27	33.7
No Insert	1	0.3	3	2.6	0	0	26	32.5

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EXAMPLE 2

Sequencing of Additional ESTs: Second set

Over 2600 additional cDNA clones have been isolated, partially sequenced and screened. The clones were isolated from four human brain cDNA libraries. The new sequences thus discovered, together with the 315 brain ESTs from Example 1, correspond to over 2400 new human genes. These data represent an approximate doubling of the number of human genes identified by DNA sequencing.

Specifically, four cDNA libraries were used as sources of clones for sequencing. Human hippocampus and fetal brain libraries, plasmid template preparation, sequencing reactions, and automated sequencing were performed as described (Adams, M.D., Kelley, J.M., Gocayne, J.D., Dubnick, M., Polymeropoulos, M.H., Xiao, H., Merril, C.R., Wu, A., Olde, B., Moreno, R.F., Kerlavage, A.R., McCombie, W.R., & Venter, J.C. *Science*, 252: 1651-56 (1991)). A pooled probe consisting of inserts from 10 different EST clones with sequences that matched either mitochondrial genes or the 18S or 28S ribosomal RNAs was used to prescreen a gridded filter array of the hippocampus library; nonhybridizing clones are referred to as the "prescreened library". Another fetal brain library was constructed by and was a gift from Bento Soares (Columbia University). A directionally-cloned library was prepared using the method of Rubenstein, et al. (Rubenstein, J., Elizabeth, A., Brice, A., Ciaranello, R., Denney, D., Porteus, M. & Usdin, T. *Nucl. Acids Res.* 18: 4833-4842) using human adult brain mRNA purchased from Clontech (Palo Alto, CA; Catalogue # 6516-1). Of 482 clones analyzed by restriction enzyme digestion, 33% contained inserts at least 1500 base pairs in length. Stratagene hippocampus and fetal brain library totals include data from Adams et al *Science* 252: 1651.

Sequences of nuclear-encoded cDNAs that did not include interspersed repeats (Schmid, C. W. & Jelinek, W. R. *Science*

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216: 1065-1070 (1982); Paulson, K. E., Deka, N., Schmid, C. W., Misra, R., Schlinder, C. W., Rush, M. G., Kadyk, L., & Leinwand, L. *Nature* 316: 359-361 (1985); Fanning, T. G. & Singer, M. F. *Biochem. Biophys. Acta* 910: 203-212 (1987))

5 were searched against all of GenBank and, in 6-frame translation, against a comprehensive, non-redundant peptide database using the network BLAST (Altschul, S. F., Gish, W., Miller, W., Myers, E.W., & Lipman, D. J. *Mol. Biol.* 215: 403-410 (1990)) server at the National Center for

10 Biotechnology Information. BLAST output was parsed, and an interactive alignment editor was used to select which matches, if any, from each search to record in a relational EST database, which was developed to track sequencing, identification, tissue localization, physical mapping, and

15 the public distribution of the clones, mapping and sequence data. For significant similarities, a putative gene name and Protein Identification Resource (PIR) gene family identification (Barker, W., George, D., Hunt, L., & Garavelli, J. *Nucl. Acids Res.* 19 (Suppl): 2231-2236 (1991))

20 for the EST were assigned. ESTs without significant matches using BLAST were searched in translation against PIR using FASTA. Ten additional marginal matches were found. A total of 2300 new EST sequences comprising 765,505 nucleotides from the current data set have been submitted to GenBank and

25 assigned accession numbers M77851-M79278 and M85308-M86179. All ESTs except those multiply representing actin, tubulin, and myelin basic protein clones were submitted. ATCC accession numbers of cDNA clones from which ESTs were derived are 77501-78999 and 81000-81756. The Genome Data Base

30 expressed D-segment numbers for these clones are D0S1E - D0S2422E. The ESTs from this Example are identified herein as SEQ ID NOs 316-2407.

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EXAMPLE 3

EST Characterization: First Set

ESTs including SEQ ID NOS 1-315 were analyzed as follows. Initially, the EST sequences were examined for similarities in the GenBank nucleic acid database (GenBank Release 65.0), Protein Information Resource Release 26.0 (PIR), and ProSite (MacPattern from the EMBL data library, Fuchs R. *Comput. Appl. Biosci.* 7: 105 (1990) Release 5.0 were used). BLAST was used to search Genbank and the PIR (both maintained by the National Center for Biotechnology Information) ESTs without exact GenBank matches were translated in all six reading frames and each translation was compared with the protein sequence database PIR and the ProSite protein motif database. Comparisons with the ProSite motif database were done by means of the program MacPattern from the EMBL Data Library. GenBank and PIR searches were conducted with the "basic local alignment search tool" programs for nucleotide (BLASTN) and peptide (BLASTX) comparisons (Altschul et al, *J. Mol. Biol.* 215: 403 (1990)). PIR searches were run on the National Center for Biotechnology Information BLAST network service. The BLAST programs contain a very rapid database-searching algorithm that searches for local areas of similarity between two sequences and then extends the alignments on the basis of defined match and mismatch criteria. The algorithm does not consider the potential gaps to improve the alignment, thus sacrificing some sensitivity for a 6-80 fold increase in speed over other database-searching programs such as FASTA (Pegarson and Lipman, *Proc. Natl. Acad. Sci. USA*, 85: 2444 (1988)).

Sequence similarities identified by the BLAST programs were considered statistically significant with a Poisson P-value than 0.01. The Poisson P-value less than the probability of as high a score occurring by chance given the number of residues in the query sequence and the database.

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After the BLASTN search, 30 unmatched ESTs were compared against GenBank by FASTA to determine if significant matches were missed due to the use of BLASTN for the database search. No additional statistically significant matches were found. Statistical significance does not necessarily mean functional similarity; some of the reported matches may indicate the presence of a conserved domain or motif or simply a common protein structure pattern. Those ESTs identified as fully corresponding to known human genes or proteins are not included in this disclosure. Statistically significant matches are reported in Table 2, together with the length and percent identity or similarity of each alignment.

On the basis of database searches, 609 EST sequences were classified into eight groups as shown in Table 1 (see Example 1 above). Four groups, with 197 or 32% of the sequences, consist of matches to human sequences: repetitive elements, mitochondrial genes, ribosomal RNA genes, and other nuclear genes. Forty-eight (8%) of the sequences matched non-human entries in GenBank or PIR while 230 (38%) had no significant matches. The remaining 134 (22%) sequences contained no insert or consisted entirely of polyA between the EcoRI cloning sites.

Thirty-six ESTs matched previously sequenced human nuclear genes with more than 97% identity. Four of these ESTs are from genes encoding enzymes involved in maintaining metabolic energy, including ADP/ATP translocase, aldolase C, hexokinase, and phosphoglycerate kinase. Human homologs of genes for the bovine mitochondrial ATP synthase $F_0\beta$ -subunit and porcine aconitase were also found (Table 2). Brain-specific cDNAs included synaptophysin, glial fibrillary acidic protein (GFAP), and neurofilament light chain. At least six ESTs are from genes encoding proteins involved in signal transduction: 2',3'-cyclic nucleotide 3'-phosphodiesterase (2 ESTs), calmodulin, c-erbA- α -2, $G_s\alpha$, and Na^+/K^+ ATPase α -subunit. Other ESTs were matches to genes for ubiquitous structural proteins -- actins, tubulins, and

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fodrin (non-erythroid spectrin). ESTs also document the presence in the hippocampus cDNA library of the ret proto-oncogene, the ras-related gene rhoB, and one of the chromosome 22 breakpoint cluster region transcripts. Eight
5 ESTs are from genes known to be associated with genetic disorders (Online Mendelian Inheritance in Man). More than half of the human-matched ESTs from Example 1 have been mapped to chromosomes, indicating the bias of GenBank entries toward well-studied genes and proteins.

10 ESTs without significant GenBank matches were also compared to the ProSite database of recognized protein motifs. Not counting post-translational-modification signatures, fifty-four sequences contained motifs from the database. Some patterns, particularly the "leucine zipper",
15 are found in scores or hundreds of proteins that do not share the functional property implied by the presence of the motif.

Similarities to sequences from other organisms were also detected in the BLAST searches of GenBank and PIR (Table 2). Several ESTs displayed similarity to "housekeeping" genes,
20 including the ribosomal proteins S10 and L30 (rat) and the above glycolytic enzymes. EST00257 (SEQ ID NO:77) shows strong nucleotide sequence similarity to the squid (67%) and Drosophila (70.4%) kinesin heavy chain. Kinesin was first described as a microtubule-associated motor protein involved
25 in organelle transport in the squid giant axon (Vale et al, Cell 42: 39 (1985)). Six oncogene-related sequences were also among the cDNA clones sequenced. EST00299 (SEQ ID NO:180) and EST00283 (SEQ ID NO:271) show similarity to several ras-related genes and EST00248 (SEQ ID NO:102)
30 matched the 3' untranslated region of the bovine substrate of botulinum toxin ADP-ribosyltransferase. Similarities with an S. cerevisiae RNA polymerase subunit and Torpedo electromotor neuron-associated protein were also observed. Two ESTs may represent new members of known human gene families: EST00270
35 matched the three β -tubulin genes with 88-91% identity and

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EST00271 (SEQ ID NO:248) matched α -actinin with 85% identity at the nucleotide level.

Among the most interesting of the primary sequence relationships was the similarity of ESTs to the *Drosophila* genes Notch and Enhancer of split. Nucleotide and peptide alignments of EST00256 (SEQ ID NO:188) and EST00259 (SEQ ID NO:227) with the *Drosophila* genes have been demonstrated. Both genes are part of a signal cascade encoded by the "neurogenic" genes that are involved in the differentiation of neuronal and epidermal cell lineages in the neuroectoderm of the developing *Drosophila* embryo (Campos-Ortega, **Trends in Neuro. Sci.** 11: 400 (1988)). It has been proposed that the Enhancer of split protein interacts with a membrane protein that is the product of the Notch gene to convert a developmental signal into an altered pattern of gene expression (id. **J. Mol. Biol.** 215: 403 (1990)). EST00256 (SEQ ID NO:188) matches near the 5' end of the Enhancer of split coding sequence, away from the mammalian G protein β subunit- and yeast cdc4-like elements (Hartley et al, **Cell** 55: 785 (1988); Klambt et al. **EMBO J.** 8: 203 (1989)). Part of the EST00259 (SEQ ID NO:227) match to Notch in the cdc10/SW16 region that is similar to three cell-cycle control genes in yeast and is tightly conserved in the *Xenopus* Notch homolog, Xotch. In *Drosophila*, Enhancer of split is absolutely required for formation of epidermal tissue. Notch contains several epidermal growth factor-like repeats and appears to play a general role in cell-cell communication during development (Banerjee and Zipursky, **Neuron** 4:177 (1990)).

Seven genes were represented by more than one EST. Comparisons of all the ESTs against one another revealed two overlaps of unknown ESTs: EST00233 (SEQ ID NO:32) and EST00234 (SEQ ID NO:8) match in opposite orientations and EST00235 (SEQ ID NO:204) and EST00236 (SEQ ID NO:148) match in the same orientation beginning at the same nucleotide. Five human genes were represented by more than one EST: β -

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actin (3), λ -actin (2), α -tubulin (2), α -2-macroglobulin (2), and 2'3'-cyclic-nucleotide-3'-phosphodiesterase (2). Those few instances where two or more ESTs represent different portions of a single cDNA can be readily ascertained when the sequence of the full cDNA insert is determined in accordance with Example 13.

Example 4

EST Sequences Characterization: Second Set

The ESTs of Example 2, including SEQ ID NOs 316-2407, were screened against known sequences listed in GenBank and other databases, as in Example 3. The results are reported in Table 2. The quality of the match is given as percent identity and length in base pairs for nucleotide matches and amino acid residues for peptide matches. In many cases ESTs match multiple domains on several related proteins; for example, EST00825 matches two transmembrane domains on both GABA and Norepinephrine transporters. Nucleotide databases are: GenBank (GB), and EMBL (E); peptide databases are: GenPept (GPU), Swiss-Prot (SP), and PIR.

The great majority (83%) of the partial cDNA sequences reported in Example 2 are unrelated to any sequences previously described in the literature. Based on database matches to known genes from humans as well as from such evolutionarily distant organisms as *E. coli*, yeast, *C. elegans*, *Drosophila*, barley, *Arabidopsis*, rice, and green algae, we have preliminarily identified the functional type of a number of the ESTs (Table 2). These include a novel gene similar to Notch/Tan-1 (Adams et al., *supra*), a new neurotransmitter transporter gene, and a new member of the multi-drug resistance gene family. Several genes involved in development or cell differentiation in *Drosophila* are represented by similar human ESTs, including seven in *absentia* (Carthew, R. & Rubin, G. *Cell* 63: 561-577 (1990)),

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big-brain (bib) (Rao, Y., Jan, L., & Jan, Y. *Nature* 345: 163-167 (1990)), the discs tumor suppressor (Woods, D. & Bryant, P. *Cell* 66: 1-20 (1991)), and the homeotic gene orthodenticle (Finkelstein, R., Smouse, D. Capaci, T., Spradling, A. & Perrimon, N. *Genes. Dev.* 4: 1516-1527 (1990)). New members of gene families previously known in humans include a Ca^{+2} -transporting ATPase, an ADP ribosylation factor, and a new neural-cell adhesion molecule gene.

The 1971 ESTs without a putative identification were analyzed using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. *Proc. Natl. Acad. Sci. USA* 88: 11261-5 (1991)). Fifteen percent of the unknown ESTs scored an excellent probability of containing protein-coding sequence. Fifty percent of the ESTs to known human genes contain protein-coding sequences, therefore, at most half of the unknown ESTs are likely to contain coding sequences. We have found no evidence that genomic DNA or cDNA to unspliced precursor RNA is a major contaminant of either the hippocampus or fetal brain library.

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Table 2: ESTs Identified by Database Matches

SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID
208	EST00250	60K filarial antigen	A28209	PIR	108	56.9
2320	EST01784	60K filarial antigen	A28209	PIR	88	50.6
969	EST01982	ADP-ribosylation factor 1	B33283	PIR	84	41.2
1834	EST01620	AMP deaminase, brain	A37056	PIR	57	100.0
97	EST00289	Aconitase	A35544	PIR	105	90.6
251	EST00370	Actin, other	S10021	PIR	44	51.1
248	EST00271	Actinin, alpha	HUMACTAR	GB	271	85.3
891	EST01891	Actinin, alpha	HUMACTAR	GB	315	81.6
1500	EST02538	Actinin, alpha	HUMACTAR	GB	271	75.0
132	EST00110	Agrin	RATAGR	GB	269	82.2
1852	EST01625	Agrin	RATAGR	GB	103	84.6
1094	EST02113	Ala	HUMALA	GB	92	82.8
691	EST00675	Alcohol dehydrogenase	RICGOS2G_1	GPU	38	59.0
2408	EST00244	Amyloid A4	HUMAFPA4	GB	135	91.9
1965	EST01664	Amyloid A4	A29030	PIR	52	54.7
2068	EST01694	Amyloid A4	QRHUA4	PIR	83	69.0
2092	EST01700	Anion exchanger homolog AE3	A33638	PIR	95	97.9
1880	EST01634	Axonal glycoprotein TAG-1	A34695	PIR	69	87.1
1492	EST02530	B cell-specific Mo-MLV integration site 1 (bmi-1)	MUSBMI1A	GB	111	87.5
1277	EST02306	Bib protein	S09699	PIR	57	53.4
13	EST00255	Cadherins	CADN\$HUMAN	SP	41	45.2
1348	EST02378	cAMP-dependent protein kinase inhibitor	MUSPKI	GB	234	91.5
1931	EST01041	cAMP-regulated phosphoprotein	B35308	PIR	21	86.4
1413	EST02447	cAMP-specific phosphodiesterase	HUMPDEAA	GB	363	69.0
396	EST01443	CDPdiacylglycerol-serine O-phosphatidyltransferase	JH0368	PIR	33	41.2
1956	EST01663	Ca2+-transporting ATPase 2	B28065	PIR	125	88.9
1126	EST02146	Calbindin D28	RATCALBD28	GB	81	87.8
1039	EST02055	Calcium channel	S05054	PIR	33	67.6
1910	EST01645	Calmodulin	RATRCM1	GB	120	90.1
485	EST01466	Calmodulin-dependent protein kinase, type II, beta	A26464	PIR	93	98.9
913	EST01913	Clathrin coat assembly protein AP50 homolog	YSCYAP54_1	GPU	62	63.5
2004	EST01676	Cofilin	PIGCOFIL	GB	132	89.5
2400	EST01824	Cysteine-rich intestinal protein	GYRTI	PIR	56	66.7
1588	EST02633	D22Z3 repetitive DNA	HUMREP	GB	160	76.4
2192	EST01257	Diacylglycerol kinase, lymphocyte	S09156	PIR	44	42.2
1441	EST02477	Diamine acetyltransferase	ATDA\$HUMAN	SP	74	45.3
650	EST00642	Dilute (myosin heavy chain)	MUSDILUTE_1	GPU	27	100.0
2302	EST01779	Discs-large tumor suppressor	DRODLGA_1	GPU	53	63.0
188	EST00256	Enhancer of split	A30047	PIR	86	58.6
2289	EST01325	Fatty acid synthase	RATFAS	GB	98	79.8
310	EST00377	Fo ATPase beta subunit, mitochondrial	BOVMTASB	GB	293	85.4
1332	EST02362	GA binding protein, beta subunit	MUSGAC_1	GPU	86	90.8
1667	EST00825	Gamma-aminobutyric acid transporter	A35918	PIR	26	59.3
2217	EST01738	Gelation factor ABP-280	A37098	PIR	74	80.0
1412	EST02446	Glutamate-aspartate carrier protein	JV0092	PIR	57	37.9
1020	EST02034	Glutaminase	GLS\$RAT	SP	34	74.3
1885	EST01639	Histocompatibility antigen modifier 1	A37779	PIR	63	75.0
1495	EST02533	Hypothetical 43.5K protein	JU0319	PIR	43	52.3
2326	EST01791	Inositol-1,4,5-trisphosphate 3-kinase	JN0129	PIR	65	68.2
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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724	EST01529	Interferon-induced 54K protein	INI4\$HUMAN	SP	76	70.1
1035	EST02051	J1 protein	MUSJ1PRO	GB	362	85.7
1229	EST02258	KUP protein	HUMKUPMR_1	GPU	54	36.4
993	EST02007	Kinase 5 protein	CHKCEK5_1	GPU	68	94.2
77	EST00257	Kinesin	A35075	PIR	57	86.2
78	EST00258	Kinesin	A35075	PIR	62	47.6
2245	EST01748	Kinesin	A35075	PIR	98	52.5
2282	EST01764	Lamin B receptor	A36427	PIR	76	71.4
2173	EST01724	Lon protease	JQ0901	PIR	103	41.3
1427	EST02463	Long-chain-fatty-acid-CoA ligase	A36275	PIR	36	62.2
313	EST00276	Lysosomal membrane glycoprotein 1 (LAMP-1)	A31959	PIR	53	46.3
161	EST00247	MARCKS (myristoylated alanine-rich protein kinase	BOVMARCKS	GB	139	83.6
1386	EST02418	MARCKS homolog	MMF52	EU	237	92.4
769	EST00734	MARCKS homolog	S08341	PIR	61	40.3
43	EST00371	Maternal G10 protein	S05955	PIR	38	92.3
1468	EST02505	Matrin 3	RATMATRIN3	GB	137	93.5
639	EST00632	Membrane transport superfamily (GTP-dependent)	A24400	PIR	63	39.1
1894	EST01643	Membrane transport superfamily (GTP-dependent)	A24400	PIR	71	50.0
824	EST01865	Microtubule-associated protein 1B	RATNEU	GB	293	86.4
223	EST00368	Microtubule-associated protein 1B	A33645	PIR	30	54.8
2032	EST01683	Microtubule-associated protein 1B	A33645	PIR	49	62.0
2017	EST01678	Milk fat globule membrane protein	A36479	PIR	48	61.2
1704	EST01580	Myeloid differentiation primary response gene MyD1	MUSMYD118_1	GPU	76	88.3
2226	EST01744	NAD(P)+ transhydrogenase (B-specific)	DEBOXM	PIR	86	93.1
1567	EST02610	Neural cell adhesion molecule L1	S05479	PIR	82	43.4
506	EST01471	Neuraxin	S06017	PIR	120	84.3
1566	EST02609	Neutrophil oxidase factor	A34855	PIR	43	47.7
952	EST01961	Notch/Xotch	HUMTAN1_1	GPU	85	57.0
227	EST00259	Notch/Xotch	A35844	PIR	74	85.3
1395	EST02429	Nuclear factor 1-like protein (NF1)	HAMNF1A	GB	111	92.0
1681	EST01573	Nucleoside diphosphate kinase	A33386	PIR	71	52.8
346	EST01828	Otd homeotic protein	A35912	PIR	35	52.8
2254	EST01751	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase	A28807	PIR	40	90.2
1869	EST00992	Polymyxin B resistance	A32714	PIR	20	76.2
93	EST00287	Processing enhancing protein	S03968	PIR	96	58.8
2353	EST01806	Prohibitin	RATPROHIB_1	GPU	120	97.5
2297	EST01775	Prohormone cleavage enzyme	MUSMPC1A_1	GPU	91	93.5
9	EST00376	Prolyl endopeptidase	PIGPREP	GB	223	83.9
1069	EST02087	Protein kinase C, zeta	HUMPKCL	GB	382	58.7
1933	EST01650	Protein phosphatase 2A beta subunit	HUMPROP2AB	GB	288	76.8
202	EST00298	Protein-tyrosine phosphatase LRP	LRP\$MOUSE	SP	62	44.4
1654	EST01572	Protochlorophyllide reductase	S04783	PIR	34	57.1
38	EST00374	RNA polymerase II 6th subunit (RPO26)	A36352	PIR	72	75.3
1478	EST02515	Rab5	F34323	PIR	91	82.6
2368	EST01389	Radial spoke protein 3	S05962	PIR	58	52.5
37	EST00038	ras p21-like small GTP-binding protein (smg GDS)	BOVSMGGDS	GB	131	89.4
180	EST00299	ras-related proteins	S10493	PIR	51	46.1
1700	EST01579	Retrovirus-related gag polyprotein	FOHUE2	PIR	95	77.1
1511	EST02550	Retrovirus-related pol polyprotein	GNLJGL	PIR	50	54.9
102	EST00248	rho H12/ ARH12	BOVBGBRH	GB	195	79.6
1715	EST01583	Ribosomal protein L18a	R5RT18	PIR	68	95.7
SEQ ID	EST#	Putative Identification	Accession	DB	Len	%ID

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1856	EST01627	Ribosomal protein L1a	A24579	PIR	75	63.1
1974	EST01667	Ribosomal protein L3	JQ0771	PIR	74	80.0
301	EST00300	Ribosomal protein L30	R6RT30	PIR	57	96.5
22	EST00301	Ribosomal protein S10	R3RT10	PIR	66	97.0
2402	EST01826	Ribosomal protein S10	R3YM10	PIR	36	51.4
463	EST01459	Ribosomal protein YL10	S11581	PIR	40	68.3
1408	EST02442	Seven in absentia	A36195	PIR	46	80.8
299	EST00249	smg p25A GDP dissociation inhibitor	A35652	PIR	97	77.5
951	EST01960	Spectrin, beta	HUMSPTB	GB	268	67.7
2089	EST01699	Sperm membrane protein	A35981	PIR	52	58.5
2073	EST01697	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	44	100.0
2138	EST01715	Succinate dehydrogenase flavoprotein	BOVSDHFP1_1	GPU	49	92.0
430	EST00472	Synaptotagmin (p65)	SY65\$HUMAN	SP	27	53.6
1371	EST02402	Talin	MUSTALINR_1	GPU	79	81.2
1771	EST01601	Thiosulfate sulfurtransferase (rhodanese)	ROBO	PIR	65	81.8
300	EST00232	Transforming protein (db1)	TVHUD8	PIR	25	65.4
189	EST00282	trkB	A35104	PIR	33	67.6
653	EST01512	Tubulin, alpha	HUMTUBAG	GB	223	75.0
594	EST01490	Tubulin, beta	HUMTBB5	GB	298	93.6
757	EST01542	Tubulin, beta	HUMTUBBM	GB	217	90.4
1245	EST02274	Tubulin, beta	A26561	PIR	105	88.7
1147	EST02169	Tyrosine kinase	HUMECK	GB	384	74.3
1701	EST00853	Unc-104	JN0114	NR	36	45.0
2121	EST01711	Valine-tRNA ligase	A29871	PIR	56	57.9
187	EST00152	Wilm's tumor-related protein	HUMQM	GB	228	99.6
1726	EST01588	XPR2 alkaline extracellular protease	B26955	PIR	88	46.1
249	EST00275	Zinc Finger Proteins	S06551	PIR	25	57.7
413	EST01446	Zinc Finger Proteins	S00754	PIR	45	60.9
469	EST01460	Zinc Finger Proteins	C32891	PIR	34	54.3
833	EST01560	Zinc Finger Proteins	S00754	PIR	105	67.0
1230	EST02259	Zinc finger proteins	S00754	PIR	71	62.5
1496	EST02534	Zinc finger proteins	A34612	PIR	50	45.1
2324	EST01352	Zinc Finger Proteins	S10397	PIR	29	56.7

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There is little redundancy in EST sequencing according to the present invention. Of the nuclear-encoded messenger RNAs, the most common ESTs were to the β -actin (0.6% of the EST clones) and myelin basic protein genes (MBP, 0.5% of the clones). MBP, a highly expressed structural component of nerve tissue (Kamholtz, J., de Ferra, F., Puckett, C., & Lazzarini, R. *Proc. Natl. Acad. Sci., USA* 83: 4962-4966 (1986)), displays four alternate splicing forms, of which at least two are present among the ESTs reported here. Other common ESTs were Gs-alpha gamma-actin and both a- and alpha-tubulin.

By matching ESTs to known database sequences, a phenotypic characterization of the tissue begins to emerge. Protein superfamilies matched by ESTs were grouped into three broad functional categories to assess the biological spectrum represented by these randomly selected cDNA clones. Structural and metabolic classes comprised about 30% of the ESTs with database matches. Twenty-five percent were involved in regulatory pathways and the remainder were not classifiable. Eleven of the eighteen enzymes of glycolysis and the citric acid cycle are represented by at least one subunit or isozyme. In addition, several genes not previously known to be expressed in the brain were matched, including spermine/spermidine acetyltransferase (Casero, R., Celano, P., Ervin, S., Applegren, N., Wiest, L. & Pegg, A. *J. Biol. Chem.* 266: 810-814 (1991)) and osteopontin (Young, M., Kerr, J., Termine, J., Wewer, U., Wang, M., McBride, W. & Fisher, L. *Genomics* 7:491-502 (1990)).

EXAMPLE 5

Mapping of ESTs to Human Chromosomes

Randomly selected ESTs corresponding to SEQ ID NOS. were assigned to chromosomes via PCR (see Table 3). Oligonucleotide primer pairs were designed from EST

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sequences to minimize the chance of amplifying through an intron. The oligonucleotides were 18-23 bp in length and designed for PCR amplification using the computer program INTRON (National Institutes of Mental Health, Bethesda, MD). The program is based on the assumptions that: 1) introns are genomic sequences that interrupt the coding and noncoding sequences of genes (Smith, J. Mol. Evol. 27:45-55 (1988)); 2) there are consensus sequences for splice junctions (Shapiro, et al., Nucl. Acids Res. 15:7155-7174 (1987)); and 3) that 90% of the human genes studied have 3' untranslated regions of mRNA not interrupted by introns in the genomic DNA (Hawkins, Nucl. Acids Res. 16:9893-9908 (1988)).

The program evaluates the likelihood that a given GG or CC dinucleotide represents a former exon-intron boundary. Specifically, every input strand is processed by the INTRON program twice, first evaluating the sense mRNA strand, and then processing the complementary or anti-sense strand. The program evaluates each sequence by finding all GG or CC pairs (possible former splice sites), searching for STOP codons in all three reading frames, and analyzing the GG or CC pairs surrounded by stop codons. All regions of the EST that are unlikely to contain splice junctions based on CC content, GG content, and stop codon frequency are then marked by the program in uppercase.

The creation of PCR primers from known sequences is well known to those with skill in the art. For a review of PCR technology see Erlich, H.A., PCR Technology: Principles and Applications for DNA Amplification. 1992. W.H. Freeman and Co., New York. ESTs were examined for the presence of stop codons in each reading frame and for consensus splice junctions. The presence of stop codons and absence of splice junction sequences are more characteristic of 3' untranslated sequences than of introns. The untranslated sequences are unique to a given gene; thus, primers from

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these regions are less likely to prime other members of a gene family or pseudogenes.

The primers were used in polymerase chain reactions (PCR) to amplify templates from total human genomic DNA. PCR conditions were as follows: 60 ng of genomic DNA was used as a template for PCR with 80 ng of each oligonucleotide primer, 0.6 unit of Tag polymerase, and 1 uCi of a ³²P-labeled deoxycytidine triphosphate. The PCR was performed in a microplate thermocycler (Techne) under the following conditions: 30 cycles of 94°C, 1.4 min; 55°C, 2 min; and 72°C, 2 min; with a final extension at 72°C for 10 min. The amplified products were analyzed on a 6% polyacrylamide sequencing gel and visualized by autoradiography. If the size of the resulting product was equivalent to the EST from which the primers are derived, then the PCR reaction was repeated with DNA templates from two panels of human-rodent somatic cell hybrids; BIOS PCRable DNA (BIOS Corporation) and NIGMS Human-Rodent Somatic Cell Hybrid Mapping Panel Number 1 (NIGMS, Camden, NJ).

PCR was used to screen a series of somatic cell hybrid cell lines containing defined sets of human chromosomes for the presence of a given EST. DNA was isolated from the somatic hybrids and used as starting templates for PCR reactions using the primer pairs from EST sequences selected above. Only those somatic cell hybrids with chromosomes containing the human gene corresponding to the EST will yield an amplified fragment. ESTs were assigned to a chromosome by analysis of the segregation pattern of PCR products from hybrid DNA templates. For a review of techniques and analysis of results from somatic cell gene mapping experiments. (See Ledbetter et al., *Genomics* 6:475-481 (1990).) The single human chromosome present in all cell hybrids that give rise to an amplified fragment represents the chromosome containing that EST.

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The assignment of 100 ESTs and corresponding genes to chromosomes by PCR is shown in Table 3.

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Table 3: Assignment of ESTs to Chromosomes by PCR

SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
5	EST00012	1	TCCAGGCAATCCCAGAATAG	CTAATTGAGCTCACTGGCCC
57	EST00058	1	CTGTTTGCAAGTTTCAAAGC	GCCATTTCTAACAACCAGAG
64	EST00066	1	GCCATTGTGCTGAATAGAGT	GTTAGTGTTCCTTAGCAAG
83	EST00079	1	CAGCTAATTGACCTGGGCTA	CAACATGCTCTGAGCTTTAG
83	EST00079	1	GGCAGAGCATAATGAGTATA	CATATGCATATGGTCCCTAT
91	EST00086	1	AGTTTAGATGGAGGGCTGTC	TCTGCCCTAATGCGCAGGCT
105	EST00365	1	CCTAATCACCTCCCTTTTGT	CCTTAGTTGGAGATAAGGTC
109	EST00095	1	AGTCTAATCCTGTACACTTG	CGGGCTTTCTCTGAATTGGT
116	EST00100	1	TTAGAAGTGCCCATGGGAGG	TTTTAAGGCTCTGGAGTGTT
141	EST00118	1	CTCAGAGAACTTAGGTGAA	CTACAGAATCATTTCCACCAG
220	EST00372	1	AAGTTGCACATTGCCAAGG	ATAGTACTGCAAGGTTATTC
237	EST00187	1	TTACAAATTTCTCTTGACGC	CTGAAGGAGCACAGTTTCTC
242	EST00192	1	GGATCAGATAATCAAACAGG	GCCTTAGGATATGAATGCATA
259	EST00202	1	GCATCACAGTTTAACTGAGG	CTACATATTTGTGCCTCCCTT
269	EST00293	1	CTGTGTGCTGTCAGTAGCTT	CTTTTGACCCAGTGAAAGCTT
299	EST00249	1	GATCATGCAGACGTAGATAT	CCAACCTCTGCCAGATCATT
1651	EST00810	1	TAGTCGCTGTAAGTTGATTTC	GCCTTGCTGGATGCTTCATT
16	EST00021	2	CAGGCAAGTTTCTTCCAGGA	TCAGACCCATGGTCAGCTT
1898	EST01013	2	GGCTGAGAACGGTTAGCATA	CCCTCAGCTTAGGGGAATG
8	EST00234	2	TAGAAGGCAAACATATGTCCC	GGTTGAGGATTGGCTTTTAC
36	EST00037	2	AGCCAGAAGGCTGCTTAAAG	GCAGTGAACCAGTACTCCTA
123	EST00106	2	GTCTAATTTGTAACCTTCAG	GATAGATTGTATAAGAAGCC
192	EST00155	2	GATTTATGTCTGGGAACATA	GCAGCATGTGAAAGAAATGAT
200	EST00162	2	TTTAATGGGTGGTGGGAGCT	CGATGCACATCCTTCTCCAT
284	EST00216	2	CCTAAGAATTCGTTTGGCTC	GTCTGGCACATAATAGATTG
102	EST00248	3	ATACTACATCTAGTCTGG	TTACAGTTCTGTGGTTTC
167	EST00138	3	AAACAGCTGCGGATGACA	AAAGGATCCTCCACTCCAGA
12	EST00274	3	CCTAGCAAACCTCATAACAC	CATAAGTGAATGGACACAGG
60	EST00062	3	ACACATTAACGGTGCTGCAG	GGAATCAGCCCTTGAGGACT
77	EST00257	3	AAGCTCACAAACGCAGATCTG	CTGGAACAGCTTACAAAGGT
107	EST00093	3	ATTGAACTCTGTCAACAGTG	TGTAACAAACAAAGGCCAACT
108	EST00094	3	AL2 - GCAGGATGTCTAGTCTTTTGAG	AGCACACATTATCTACCACGGC
1706	EST00857	3	AL2 - GCAGGATGTCTAGTCTTTTGAG	CCAGCACACATTATCTACCACG
37	EST00038	4	AACTTCGCAGTCATGAGAAC	TGTATCGGGCAGTTCTCAG
6	EST00013	4	CACATGTTCTCCCTCTTTCA	GCATTTTGGAGCTCTTCCGT
37	EST00038	4	AL2 - GGAAGTACAGGATTTGGC	TTAGAGATGGGATGATGCCG
31	EST00033	5	TGGGTACCCTAAGGTGTTTG	GACTAATCTAAGTCTAGG
28	EST00030	5	AGATAAGTTAGGAAGCTGGT	ACTCACTGCTAGTATCATCC
59	EST00061	5	AAAGTTTCTTAGCACCCCCC	CAGACTTTGACAAAAGAATC
74	EST00073	5	ATCAGACACGTGGCAGGGTT	AAGTCCCTGAGGGTGACAGAA
121	EST00104	5	TGAAGGCAGCTGCTAAATCT	GGATGTATTGATCTGACTCA
149	EST00123	5	ATACTGTCAACGGAGGGTGA	GTCTGCAGGTTTCTCCTTGA
235	EST00185	5	TTACTGTCCCATCAGATATC	TACACTCTTAAGAAGGTATG
1643	EST00803	5	GAGCGTTTTAAAGAGATTCT	TACAGACAGCCATGTTCCAA
1677	EST00835	5	AL2 - TCTCCAACACAGTCATGC	CGGATGCCATCATATACC
23	EST00026	5	CCTGCAGTGACACTTAACAT	CTGCTCACCTGAAATTGATAC
121	EST00104	5	AL2 - CAGATCAATACATCCTCTGGG	CTGTGCAGTGGTGAGTAAAAGG

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SEQ ID	EST#	Chr	PRIMER #1	PRIMER #2
1	EST00007	6	TAGTTGATGGTCTGGGTTAT	GAAATCCCAGGGAGACAATG
19	EST00023	6	CAACTTACATTAGGGGTTTG	GACCTCATTAGAAGAGCCCA
155	EST00129	6	GGAAGCTGCCATATAAGCTC	TCAGTGTGCTACAATCTACC
224	EST00356	6	GCTGTATGTTAACCCTTTGT	TGGAACCCTCAAACACTGCT
288	EST00219	6	ACTTTCATGTTGAGAAGTAT	ATCTAGCTGAAACATTGCTG
1638	EST00798	6	CTTCATCTGTAACTGTTGA	TGAAAATGAGTCACAGGCAG
1675	EST00833	6	AL2-ACCCAGTTCTCAAAGACC	GGTTTACCATTTCAGAGGC
22	EST00301	6	CTCCGTGATTACCTTCATCT	TTGTAGGTATCTCTGTCAGCT
207	EST00167	7	GGTGCTACTTTGTGAATGCT	AGCAATGTGATTTTGTAGG
137	EST00272	7	AGTGCTCACTATCTACATGG	GATTGAGAATTACTAAGCCG
1659	EST00817	7	TGTATAGGCTCTACATAAAG	CTTAATCATGGATTCTTCGT
1680	EST00838	7	AL2-GTTCTTTCCAGGTATGC	TTGTTGTTACTGAGGAAGTGCG
292	EST00223	8	TGCAGCAGTGACCATGAGAA	ATCATCTTTCCACGCGGCTT
134	EST00375	9	TCTGGGCTTCTGTGTTTCAA	CTGGCTGCTCAGCAACTCAT
1906	EST01021	9	GGATGTTTTCTATGTGACGA	TTCCAGTGCCCCCTTTTGTCC
1645	EST00804	10	CTCCTTTGGGACAACAACCT	CCAACCCAAACATATTCTA
20	EST00024	10	AGCTGTTCCCTGAGAGATGCA	CCTTGTGAAGAAAGACTTTC
157	EST00131	10	TCAGCAACAGGTCACCTTGG	CTAAGCATCTGCATGTCCAG
172	EST00142	10	TACTAGCATTCTTACTCTC	TATGCTGATTGTTTGCACCTC
250	EST00197	10	GGTGATTAGAGAGTCTGTTG	GAACCTCTGTAGTGTCTAAA
133	EST00111	11	GGAAATTAGGCTTAGCTCAC	GTGCGAATACTTAGAGTCC
178	EST00294	11	GTTTGAAGGAAGTGATTTC	TAGGGCCACCTCCAGTTCAT
10	EST00016	11	GTCTTTGGATTCTACGTAGA	CGATAATGACATTTCTTCTGG
126	EST00109	11	AL2-CTAACCACAACCCACACATTG	CCTCAGCACAAGAGAAGATGG
7	EST00014	12	AACTTGCAACATAAATACTAG	GAGCAATGATTTCTAACAGT
254	EST00200	13	TTGTGTACTGTCTGATAGAC	TAAGCCATGGGCATCTATAA
2409	EST00273	13	GCAAGATGATGGAACATCCC	TTCTTCTGAGGGCTCTACA
170	EST00295	14	GGTGCTTAAGGCCACTTTTG	CTTAGAGGATCATAGGCTG
255	EST00201	14	CCAGGAGAGTAAGAAGATCA	GCAGAGTTGAATATGAACCT
290	EST00221	14	GTGCCAAGATGGCTCATGTA	GTATAGCTTTAAGCCAGTTC
293	EST00224	14	AATGCATTATGCCTGGTCTT	GGAAAAGTCTAGAACTTAGT
1664	EST00822	14	GGGTCAGAATTAAGAGGTCT	GTTTCATCTCTAACTCCTTTC
315	EST00008	14	AAGCTGGCTGGGAAATGTTT	GTCTAGTCTAGTAACTTACAC
1689	EST00845	14	AL2-AGGAGGAAGCTGAAATCC	GGAAAGTCCATAAGAGACTCACC
95	EST00088	15	GTGACAGACCATGTCTATTG	AAGTGAGCGATTGCACCTTC
205	EST00165	15	AGGATGACCTGAGTGAGCTG	CCATGGCAGCAAGGAACTCT
33	EST00034	16	TGTGTGAAAGGGAGTCTTGT	CCATTTTGACTGTTCCATAG
247	EST00279	16	TGGCTAGGGCAGGCCTTAAA	GAGAAGAATATCAAATGGGG
18	EST00373	16	CCATCTGTGTCCCAATTAAGC	AGGGAAGAAGTCTAGAGCGA
68	EST00068	17	CAAAGACGGGAGACGAATGA	AGTGGAACGCGTGGCCTATG
1652	EST00811	17	GAGCTGCATGTTGATAAGTA	TTGACTTAAGCTGACCTTAA
1702	EST00854	17	AL2-TTGCTGTGGAATCCATGAGAG	GGCAAGTGATCTGTTCTTGG
84	EST00080	19	AGAGATGTCAGTCCATTATC	CTATTCCACCTTACTCAAGG
223	EST00368	19	CATCATGTGCGAGACGCATT	TGGATGACCTGAGTCTGCAG
21	EST00025	20	AGTTCTGGAGGCTAGGAGTT	ATGTAAGGACCCCTAGATGG
210	EST00168	20	TGTCAACTTCCCTTTGGCCT	GAAGCTTGCTCATTCAGGAA
136	EST00113	20	AL2-TCGGAGAAGTTGCAGTTTCTG	GTTAAAAGCTGTTAGACGGGGC
120	EST00103	22	CACCTGACTGACTCCTCTTTA	GGAACCGTAACCTCTCCATAG
313	EST00276	X	ATTGACCTTCAATGTAATAA	TTGGATTGGGCAAAATAG

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<u>SEQ ID</u>	<u>EST#</u>	<u>Chr</u>	<u>PRIMER #1</u>	<u>PRIMER #2</u>
162	EST00133	X	ATGTGAGCATCTATACCTGC	AATGAAGGCATGAGAATAGG
1669	EST00827	X	CGGACAACTAGGATAAATGC	TACGCGTTTGAATGGCTTGA
1917	EST01029	X	GAATAGCATTATTAGCCAGT	GGACCTATTGGAGATCTACT
1708	EST00858	X	AL2-AAGGCGAGGATTATGTGC	TTCTACTGGGTACACTTCGACC

Abbreviation: AL2: Amino-Link-2 Fluorescent Tag, Chr.: Chromosome.

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The foregoing techniques have been used to further localize 9 ESTs and their associated genes to precise locations onto chromosome 6 or chromosome X, as reflected in Table 4A (in Example 7 below), using sublocalization techniques that employ somatic cell hybrids. ESTs were used as hybridization probes and mapped to other chromosomes using techniques disclosed in Example 7. Somatic cell hybrids were prepared that contained defined subsets of chromosomes 6 and X. Methods for preparing and selecting somatic cell hybrids are known in the art. For a review of an exemplary procedure to generate somatic cell hybrids containing the short arm of human chromosome 6, see Zoghbi, et al., *Genomics* 9(4):713-720 (1991). For a general review of somatic cell hybridization see Ledbetter et al. (*supra*). The hybrids were processed to obtain DNA and analyzed by PCR and by fluorescence in situ hybridization. SEQ ID NOS 19, 22, 1, 224, 288 mapped to chromosome 6, while SEQ ID NOS 162, 1917, 1699 and 1899 mapped to chromosome X using somatic cell hybrids.

EXAMPLE 6

Mapping of All ESTs to Human Chromosomes

The procedure of Example 5 is repeated for all of the ESTs from Examples 1 and 2 not previously mapped to human chromosomes. Data are generated corresponding to the data in Table 3 for all of the unmapped ESTs. As previously mentioned, virtually all of the ESTs will map to a unique chromosomal location. The inability of any ESTs to localize to a unique location will be readily ascertainable during the mapping process.

Physical mapping of the type reported in Table 4 on all the EST clones reported here would provide human chromosome markers spaced on average every 1.2 megabases and would roughly double the number of expressed sequences that have been localized to chromosomes (McKusick, V. **FASEB**

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J. 5: 12-20 (1991)). Mapped ESTs are also a new resource to identify candidates for the estimated 5000 single-locus disease-associated genes (Id.).

EXAMPLE 7

5 Alternative Technique for Mapping to Chromosomes
 Mapping of ESTs to chromosomes using fluorescence in situ
 hybridization

10 This technique was used to map an EST to a particular location on a given chromosome. Cell cultures, tissue, or whole blood were used to obtain chromosomes.

 0.5 ml. of whole blood was added to RPMI 1640 and incubated 96 hours in a 5%CO₂/37°C incubator. 0.05 ug/ml colcemide was added to the culture one hour before harvest. Cells were collected and washed in PBS. The suspension was
15 incubated with a hypotonic solution of KCl added dropwise to reach a final volume of 5 ml. The cells were spun down and fixed by resuspending the cells in methanol and glacial acetic acid (3:1). The cell suspension was dropped onto glass slides and dried.

20 The slides were treated with RNase A and washed then dehydrated in a series of increasing concentrations of ethanol.

 The EST to be localized was nick-translated using fluorescently labeled nucleotide (Korenberg, Jr., et al.,
25 Cell 53(3):391-400 (1988)). Following nick translation, unincorporated label was removed by spin dialysis through Sepharose. The probe was further extracted with phenol-chloroform to remove additional protein. The chromosomes were denatured in formamide using techniques known in the art
30 and the denatured probe was added to the slides. Following hybridization, the cells were washed. The slides were studied under a fluorescent microscope. In addition, the chromosomes can be stained for G-banding or Q-banding using techniques known in the art.

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The resulting metaphase chromosomes had fluorescent tags localized to those regions of the chromosome that were homologous to the EST. Thus, a particular EST was localized to a particular region on a given chromosome. In this manner, SEQ ID NOs 396, 485, 506, 1880 and 1894 were mapped using fluorescent in situ hybridization to locations on chromosomes 17, 7, 10 and 1 respectively (See Table 4B below). For a review of the technique see Verma et al., *Human Chromosomes: A Manual of Basic Techniques*. Pergamon Press, NY (1988), which is hereby incorporated by reference.

Table 4: Precise Chromosomal Localization of ESTs

		SEQ ID	EST#	Map Location
		-----	-----	-----
15	A.	19	EST00023	6p
		22	EST00301	6p
		1894	EST01643	6p21
		1	EST00007	6q
		224	EST00356	6q
		288	EST00219	6q
20		162	EST00133	Xp11.21 - Xp21.2
		1917	EST01029	Xp11.21 - Xp21.2
		1669	EST00827	Xq26 - Xq27.1
		1899	EST01014	Xq28
25	B.	1880	EST01634	1q32
		485	EST01466	7p13
		506	EST01471	10q11.2
		396	EST01443	17q25

EXAMPLE 8

Automated DNA Sequencing Accuracy

ESTs that match human sequences in GenBank are excellent tools for the analysis of the accuracy of double-strand automated DNA sequencing. Ninety EST/GenBank matches were examined for the number of nucleotide mismatches and gaps required to achieve optimal alignment by the Genetics Computer Group (GCG) program BESTFIT (Devereux et al, *Nucleic Acids Research* 12: 387 (1984)).

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The number of mismatches, insertions and deletions was counted for each hundred bases of the sequence (Table 5). As expected, the sequence quality was best closest to the primer and decreased rapidly after about 400 bases. The number of deletions and insertions relative to the GenBank reference sequence increased five- to ten-fold beyond 400 bases, while the number of mismatches doubled. The average accuracy rate for individual double-stranded sequencing runs was 97.7% to 400 bases.

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TABLE 5. Accuracy Of Single-Run Double-Stranded Automated Sequencing

<u>Bases from Primer</u>	<u>Mismatches/ Ambiguities</u> ⁺	<u>Gaps Insertions</u> ⁺	<u>Percent Deletions</u> ⁺	<u>Aligned Accurate</u>	<u>Bases</u>
101 - 200	1.45	0.18	0.19	98.2	8,800
201 - 300	1.72	0.25	0.11	97.9	8,130
301 - 400	2.07	0.98	0.37	96.6	5,404
>400	3.53	2.63	1.06	92.8	3,197

ESTs statistically identical to known human sequences and those matching mitochondrial and ribosomal genes were aligned with sequenced from GenBank using the GCG program BESTFIT. The first 85 nucleotides was polylinker sequence which was not aligned with the pBluescript SK reference sequence. Tabulation of errors began 15 bases into the BESTFIT alignment and thus is reported beginning with bases 101-200. ⁺Error rates are reported as number of mismatches, insertions, or deletions per hundred aligned bases. "Mismatches" includes ambiguous base calls.

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EXAMPLE 9

Probability of ESTs Containing Coding Sequences

The ESTs of the present invention were statistically evaluated using the coding-region prediction program CRM via the GRAIL server (Uberbacher, E. & Mural, R. *Proc. Natl. Acad. Sci. USA*, 88: 11261-5 (1991)). The CRM program uses a neural network to combine results from several different coding regions by looking at different 6 bp sequences found in coding exons and in introns. The program additionally conducts reading frame searches and assesses randomness at the third position of codons. This protocol categorizes sequences as having an excellent, good, marginal, or poor probability of containing coding regions. The results are reported in Tables 6-9. There were 219 ESTs categorized as "excellent" (Table 6); 120 categorized as "good" (Table 7); 113 categorized as "marginal" (Table 8); and 1743 categorized as "poor" (Table 9). These results indicate that most ESTs of the present invention comprise noncoding regions.

Table 6: ESTs with Excellent Probability of Containing Coding Sequence

SEQ ID#	EST#				
7	EST00014	973	EST01987	1807	EST00941
15	EST00020	979	EST01993	1809	EST00943
48	EST00291	980	EST01994	1820	EST00951
62	EST00064	986	EST02000	1829	EST00958
66	EST00067	1000	EST02014	1849	EST00975
75	EST00074	1004	EST02018	1860	EST00983
98	EST00260	1007	EST02021	1866	EST00989
106	EST00092	1018	EST02032	1871	EST00994
108	EST00094	1021	EST02035	1888	EST01005
114	EST00098	1034	EST02050	1890	EST01007
115	EST00099	1047	EST02063	1892	EST01009
124	EST00107	1090	EST02109	1903	EST01018
128	EST00252	1096	EST02115	1904	EST01019
156	EST00130	1115	EST02135	1914	EST01026
164	EST00135	1118	EST02138	1930	EST01040
166	EST00137	1129	EST02149	1944	EST01050
174	EST00296	1133	EST02153	1949	EST01054
179	EST00145	1141	EST02163	1962	EST01062
183	EST00148	1163	EST02187	1973	EST01071
201	EST00163	1183	EST02208	1977	EST01075
205	EST00165	1243	EST02272	1982	EST01080
215	EST00172	1264	EST02293	1991	EST01088
230	EST00181	1265	EST02294	1993	EST01090
253	EST00199	1266	EST02295	2000	EST01097
263	EST00203	1287	EST02317	2001	EST01098
268	EST00369	1308	EST02338	2012	EST01106
270	EST00207	1324	EST02354	2013	EST01107
271	EST00283	1344	EST02374	2024	EST01117
273	EST00208	1356	EST02386	2043	EST01131
276	EST00211	1365	EST02396	2051	EST01138
281	EST00214	1383	EST02415	2056	EST01142
285	EST00286	1399	EST02433	2058	EST01144
333	EST00394	1401	EST02435	2059	EST01145
336	EST00397	1405	EST02439	2064	EST01149
339	EST00400	1417	EST02452	2090	EST01167
362	EST00418	1451	EST02487	2094	EST01171
389	EST00440	1457	EST02493	2116	EST01192
441	EST00481	1463	EST02500	2117	EST01193
454	EST00493	1473	EST02510	2128	EST01202
476	EST00509	1479	EST02516	2131	EST01205
493	EST00522	1516	EST02555	2134	EST01208
504	EST00529	1528	EST02569	2144	EST01216
516	EST00538	1531	EST02572	2145	EST01217
518	EST00540	1544	EST02586	2150	EST01222
551	EST01482	1551	EST02593	2155	EST01227
552	EST00565	1558	EST02601	2161	EST01231
559	EST00570	1561	EST02604	2163	EST01238
582	EST00592	1581	EST02625	2174	EST01242
602	EST00606	1586	EST02631	2176	EST01244
606	EST00609	1591	EST02636	2189	EST01255
608	EST00611	1616	EST02661	2214	EST01272
621	EST00620	1624	EST02670	2225	EST01278
635	EST00629	1630	EST02676	2227	EST01279
642	EST00634	1637	EST00796	2233	EST01284
644	EST00636	1639	EST00799	2235	EST01286
687	EST00671	1649	EST00808	2236	EST01287
700	EST00683	1651	EST00810	2255	EST01302
743	EST00714	1677	EST00835	2259	EST01304
753	EST00721	1682	EST00839	2263	EST01307
760	EST00726	1694	EST00849	SEQ ID#	EST#
764	EST00729	1706	EST00857	2267	EST01756
808	EST00761	1708	EST00858	2281	EST01321
823	EST01864	1710	EST00860	2283	EST01322
834	EST00771	1716	EST00865	2300	EST01333
886	EST01886	SEQ ID#	EST#	2303	EST01335
919	EST01921	1718	EST00867	2303	EST01335
930	EST01933	1731	EST00879	2314	EST01345
936	EST01939	1742	EST00887	2334	EST01358
948	EST01957	1746	EST00891	2339	EST01362
965	EST01978	1760	EST00903	2342	EST01365
		1767	EST00907	2348	EST01371
		1769	EST00909	2358	EST01379
		1777	EST00913	2367	EST01388

Table 7: ESTs with Good Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>				
		1041	EST02057	2362	EST01383
		1083	EST02102	2378	EST01397
20	EST00024	1099	EST02118	2399	EST01423
72	EST00071	1105	EST02124	2407	EST02714
82	EST00078	1113	EST02133		
88	EST00084	1139	EST02161		
137	EST00272	1146	EST02168		
177	EST00328	1196	EST02221		
193	EST00156	1210	EST02238		
200	EST00162	1233	EST02262		
218	EST00175	1285	EST02314		
228	EST00179	1331	EST02361		
247	EST00279	1388	EST02421		
264	EST00204	1418	EST02453		
267	EST00297	1439	EST02475		
296	EST00228	1502	EST02540		
371	EST00426	1537	EST02578		
385	EST00436	1563	EST02606		
392	EST00442	1599	EST02644		
414	EST00460	1602	EST02647		
433	EST00474	1693	EST00848		
453	EST00492	1695	EST00850		
471	EST00505	1729	EST00877		
496	EST00525	1730	EST00878		
524	EST00544	1738	EST00883		
526	EST00546	1739	EST00885		
529	EST00549	1743	EST00888		
549	EST00563	1768	EST00908		
557	EST00569	1780	EST00916		
578	EST00588	1804	EST00938		
596	EST00602	1805	EST00939		
607	EST00610	1811	EST00945		
619	EST00619	1819	EST00950		
657	EST00646	1826	EST00956		
660	EST00649	1830	EST00959		
689	EST00673	1845	EST00971		
695	EST00679	1848	EST00974		
699	EST00682	1853	EST00977		
729	EST00703	1967	EST01066		
742	EST00713	1992	EST01089		
747	EST00717	1994	EST01091		
755	EST00723	<u>SEQ ID#</u>	<u>EST#</u>		
759	EST00725				
776	EST00738	1997	EST01094		
778	EST00740	2046	EST01134		
782	EST01551	2101	EST01177		
829	EST00768	2102	EST01178		
835	EST00772	2105	EST01181		
836	EST00773	2106	EST01182		
862	EST01872	2141	EST01213		
881	EST01881	2184	EST01251		
<u>SEQ ID#</u>	<u>EST#</u>	2196	EST01260		
		2203	EST01264		
884	EST01884	2232	EST01283		
924	EST01926	2308	EST01339		
929	EST01932	2345	EST01368		
938	EST01941	2346	EST01369		
971	EST01985	2351	EST01373		
995	EST02009	2354	EST01375		
996	EST02010	2355	EST01376		
1031	EST02046	2359	EST01380		

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Table 8: ESTs with Marginal Probability of Containing Coding Sequence

<u>SEQ ID#</u>	<u>EST#</u>		
11	EST00018	1222	EST02251
12	EST00274	1224	EST02253
24	EST00027	1228	EST02257
45	EST00364	1267	EST02296
79	EST00076	1301	EST02331
90	EST00302	1397	EST02431
110	EST00096	1448	EST02484
144	EST00120	1480	EST02517
145	EST00121	1493	EST02531
192	EST00155	1499	EST02537
222	EST00177	1503	EST02541
234	EST00184	1527	EST02568
277	EST00212	1536	EST02577
319	EST00381	1548	EST02590
368	EST00423	1562	EST02605
370	EST00425	1572	EST02615
387	EST00438	1575	EST02618
402	EST00451	1595	EST02640
415	EST00461	1608	EST02653
418	EST00464	1610	EST02655
426	EST00470	1621	EST02667
503	EST00528	1627	EST02674
517	EST00539	1629	EST02677
522	EST00543	1631	EST02678
532	EST00551	1683	EST00840
540	EST00557	1692	EST00847
570	EST00580	1751	EST00895
573	EST00583	1756	EST00900
576	EST00586	1764	EST02690
613	EST00615	1770	EST00910
617	EST00617	1793	EST00929
626	EST00622	1847	EST00973
681	EST00665	1877	EST00998
726	EST00700	1897	EST01012
727	EST00701	1900	EST01015
738	EST00711	1939	EST01655
745	EST00715	1940	EST01046
752	EST00720	1954	EST01058
791	EST00746	<u>SEQ ID#</u>	<u>EST#</u>
795	EST00749	1990	EST01087
803	EST00756	2008	EST01103
845	EST00777	2031	EST01123
852	EST00782	2041	EST01130
854	EST00784	2044	EST01132
907	EST01907	2060	EST01146
912	EST01912	2100	EST01176
935	EST01938	2136	EST01210
<u>SEQ ID#</u>	<u>EST#</u>	2153	EST01225
968	EST01981	2204	EST01265
985	EST01999	2212	EST01270
988	EST02002	2248	EST01297
1043	EST02059	2250	EST01299
1081	EST02100	2266	EST01310
1089	EST02108	2309	EST01340
1116	EST02136	2347	EST01370
1134	EST02154	2388	EST01406
1205	EST02233	2398	EST01422
		2405	EST01427

Table 9: ESTs with Poor Coding Probability

SEQ ID#	EST#	103	EST00317	204	EST00235	309	EST00174	404	EST00453
1	EST00007	104	EST00354	206	EST00166	315	EST00008	405	EST00454
2	EST00009	105	EST00365	207	EST00167	316	EST00378	406	EST00455
3	EST00010	107	EST00093	209	EST00331	317	EST00379	407	EST00456
4	EST00011	109	EST00095	210	EST00168	318	EST00380	408	EST00457
5	EST00012	111	EST00281	211	EST00332	320	EST00382	409	EST01444
6	EST00013	112	EST00318	212	EST00169	321	EST00383	410	EST00458
8	EST00234	113	EST00097	213	EST00170	322	EST00384	411	EST00459
10	EST00016	116	EST00100	214	EST00171	323	EST00385	412	EST01445
14	EST00019	117	EST00319	216	EST00173	325	EST00386	416	EST00462
16	EST00021	118	EST00101	219	EST00176	326	EST00387	417	EST00463
17	EST00022	119	EST00102	220	EST00372	327	EST00388	419	EST00465
18	EST00373	120	EST00103	221	EST00359	328	EST00389	420	EST00466
19	EST00023	121	EST00104	224	EST00356	329	EST00390	421	EST00467
21	EST00025	122	EST00105	225	EST00178	330	EST00391	422	EST01447
23	EST00026	123	EST00106	226	EST00333	331	EST00392	423	EST00468
25	EST00028	125	EST00108	229	EST00180	332	EST00393	424	EST01448
27	EST00029	126	EST00109	231	EST00334	334	EST00395	425	EST00469
28	EST00030	127	EST00320	232	EST00182	335	EST00396	427	EST01449
29	EST00031	129	EST00321	233	EST00183	337	EST00398	428	EST01451
30	EST00032	130	EST00355	235	EST00185	340	EST00402	429	EST00471
31	EST00033	131	EST00322	236	EST00186	341	EST00403	431	EST00473
32	EST00233	133	EST00111	237	EST00187	342	EST00404	432	EST01452
33	EST00034	134	EST00375	238	EST00188	344	EST00405	434	EST00475
34	EST00035	135	EST00112	239	EST00189	345	EST00406	435	EST00476
35	EST00036	136	EST00113	240	EST00335	347	EST01829	436	EST00477
36	EST00037	138	EST00114	241	EST00191	348	EST01830	437	EST00478
39	EST00039	139	EST00116	242	EST00192	349	EST01831	438	EST00479
40	EST00040	140	EST00117	243	EST00193	350	EST00407	439	EST00480
41	EST00041	141	EST00118	244	EST00194	351	EST00408	440	EST01454
42	EST00042	142	EST00323	245	EST00347	352	EST00409	442	EST01456
46	EST00044	143	EST00119	246	EST00196	353	EST00410	443	EST00482
47	EST00046	146	EST00122	250	EST00197	354	EST01433	444	EST00483
49	EST00047	147	EST00292	252	EST00198	355	EST00411	446	EST00485
50	EST00048	148	EST00236	254	EST00200	356	EST00412	447	EST00486
51	EST00049	149	EST00123	255	EST00201	357	EST00413	448	EST00487
52	EST00052	150	EST00124	256	EST00345	358	EST00414	449	EST00488
53	EST00054	151	EST00125	257	EST00337	359	EST00415	450	EST00489
54	EST00055	152	EST00126	259	EST00202	360	EST00416	451	EST00490
55	EST00056	153	EST00127	260	EST00357	361	EST00417	452	EST00491
56	EST00057	154	EST00128	261	EST00338	363	EST00419	455	EST00494
57	EST00058	155	EST00129	262	EST00339	364	EST00420	457	EST00495
58	EST00059	157	EST00131	265	EST00205	365	EST01434	458	EST00496
59	EST00061	158	EST00132	266	EST00206	366	EST00421	459	EST00497
60	EST00062	159	EST00325	272	EST00340	367	EST00422	460	EST01457
63	EST00065	160	EST00326	274	EST00268	369	EST00424	461	EST01836
64	EST00066	162	EST00133	275	EST00209	372	EST00427	462	EST00498
67	EST00351	163	EST00134	278	EST00342	373	EST01832	464	EST00499
68	EST00068	165	EST00136	279	EST00213	374	EST00428	465	EST00500
69	EST00360	167	EST00138	280	EST00343	375	EST00429	466	EST00501
71	EST00070	168	EST00140	283	EST00215	376	EST01436	467	EST00502
73	EST00072	169	EST00141	284	EST00216	377	EST00430	468	EST00503
74	EST00073	170	EST00295	286	EST00217	378	EST00431	470	EST00504
76	EST00075	171	EST00327	287	EST00218	379	EST00432	SEQ ID#	EST#
80	EST00077	172	EST00142	288	EST00219	380	EST01439	473	EST00506
81	EST00315	173	EST00143	289	EST00220	381	EST00433	474	EST00507
83	EST00079	175	EST00144	290	EST00221	382	EST00434	477	EST01463
84	EST00080	178	EST00294	291	EST00222	SEQ ID#	EST#	478	EST00510
85	EST00081	182	EST00329	292	EST00223	383	EST00435	479	EST00511
86	EST00082	184	EST00149	293	EST00224	384	EST01440	480	EST01464
87	EST00083	185	EST00150	294	EST00225	386	EST00437	481	EST00512
89	EST00085	186	EST00151	SEQ ID#	EST#	388	EST00439	482	EST01465
91	EST00086	190	EST00153	295	EST00226	390	EST01442	483	EST00513
92	EST00087	191	EST00154	297	EST00230	391	EST00441	484	EST00514
94	EST00353	194	EST00157	298	EST00231	393	EST00443	487	EST00516
95	EST00088	SEQ ID#	EST#	302	EST00303	395	EST00445	488	EST00517
96	EST00089	195	EST00158	303	EST00348	397	EST00446	489	EST00518
99	EST00316	196	EST00159	304	EST00307	398	EST00447	490	EST00519
SEQ ID#	EST#	197	EST00160	305	EST00308	399	EST00448	491	EST00520
100	EST00090	198	EST00161	306	EST00309	400	EST00449	492	EST00521
101	EST00091	199	EST00277	307	EST00312	401	EST00450	495	EST00524
		203	EST00164	308	EST00314	403	EST00452	497	EST00526

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498	EST01467	600	EST01492	697	EST00680	799	EST00752	894	EST01894
499	EST01468	601	EST01493	698	EST00681	800	EST00753	895	EST01895
500	EST00527	603	EST01494	701	EST01522	801	EST00754	896	EST01896
501	EST02715	604	EST00607	702	EST00684	804	EST00757	897	EST01897
502	EST01469	605	EST00608	703	EST00685	805	EST00758	898	EST01898
507	EST00530	609	EST01496	704	EST00686	806	EST00759	899	EST01899
508	EST00531	610	EST00612	705	EST00687	807	EST00760	900	EST01900
509	EST01472	611	EST00613	706	EST00688	809	EST00762	901	EST01901
510	EST00532	612	EST00614	708	EST00689	810	EST00763	902	EST01902
511	EST00533	615	EST00616	709	EST00690	811	EST00764	903	EST01903
512	EST00534	616	EST01497	710	EST00691	813	EST00765	904	EST01904
513	EST00535	618	EST01498	711	EST00692	814	EST00766	905	EST01905
514	EST00536	620	EST01499	712	EST00693	815	EST01855	906	EST01906
515	EST00537	622	EST01843	713	EST00694	816	EST01856	908	EST01908
519	EST00541	623	EST00621	714	EST00695	817	EST01857	909	EST01909
520	EST00542	624	EST01500	715	EST01523	818	EST01858	910	EST01910
521	EST01474	625	EST01844	716	EST01524	819	EST01859	911	EST01911
523	EST01838	627	EST00623	717	EST01525	820	EST01860	914	EST01914
525	EST00545	628	EST01503	718	EST00696	822	EST01863	915	EST01915
527	EST00547	629	EST00624	719	EST01526	825	EST01866	916	EST01917
528	EST00548	630	EST01505	720	EST00697	826	EST01867	917	EST01919
530	EST01477	631	EST00625	721	EST01527	827	EST01558	918	EST01920
531	EST00550	632	EST00626	722	EST01528	828	EST00767	920	EST01922
533	EST00552	633	EST00627	723	EST00698	830	EST01559	921	EST01923
534	EST01478	634	EST00628	725	EST00699	831	EST00769	922	EST01924
535	EST00553	636	EST01507	728	EST00702	832	EST00770	923	EST01925
536	EST01479	637	EST00630	730	EST00704	837	EST01561	925	EST01927
537	EST00554	638	EST00631	731	EST00705	838	EST00774	926	EST01929
538	EST00555	640	EST01509	732	EST00706	839	EST01562	927	EST01930
539	EST00556	641	EST00633	733	EST00707	840	EST00775	928	EST01931
541	EST00558	643	EST00635	734	EST00708	841	EST00776	931	EST01934
542	EST01480	645	EST00637	735	EST00709	842	EST01563	932	EST01935
543	EST00559	646	EST00638	736	EST01532	843	EST01564	933	EST01936
544	EST00560	647	EST00639	737	EST00710	844	EST01565	934	EST01937
545	EST01481	648	EST00640	739	EST01534	846	EST00778	937	EST01940
547	EST00561	649	EST00641	740	EST01535	847	EST00779	939	EST01943
548	EST00562	651	EST00643	741	EST00712	848	EST01566	SEQ ID#	EST#
550	EST00564	652	EST01510	744	EST01537	849	EST01567		
553	EST00566	654	EST00644	746	EST00716	850	EST00780	940	EST01944
555	EST01483	655	EST00645	748	EST01850	851	EST00781	941	EST01945
556	EST00568	656	EST01513	749	EST00719	SEQ ID#	EST#	942	EST01947
558	EST01484	658	EST00647	750	EST01539			943	EST01948
560	EST01485	659	EST00648	751	EST01540	853	EST00783	944	EST01949
561	EST00571	661	EST00650	754	EST00722	855	EST00785	945	EST01950
562	EST00572	662	EST00651	SEQ ID#	EST#	856	EST01568	946	EST01953
563	EST00573	663	EST00652			857	EST01868	947	EST01954
564	EST00574	664	EST00653	756	EST01541	858	EST01869	949	EST01958
565	EST00575	665	EST00654	758	EST00724	859	EST01870	950	EST01959
566	EST00576	SEQ ID#	EST#	761	EST01544	860	EST00786	953	EST01962
567	EST00577			762	EST00727	861	EST01871	954	EST01963
568	EST00578	666	EST01514	763	EST00728	863	EST01873	956	EST01968
569	EST00579	667	EST00655	765	EST00730	864	EST00787	957	EST01969
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571	EST00581	670	EST00658	768	EST00733	867	EST01875	960	EST01973
572	EST00582	671	EST00659	770	EST00735	868	EST01876	961	EST01974
574	EST00584	672	EST00660	771	EST01546	869	EST00788	962	EST01975
575	EST00585	673	EST01515	772	EST00736	870	EST00789	963	EST01976
577	EST00587	674	EST01516	774	EST01548	871	EST00790	964	EST01977
580	EST00590	675	EST00661	775	EST00737	872	EST00791	966	EST01979
581	EST00591	676	EST00662	777	EST00739	873	EST00792	967	EST01980
583	EST00593	677	EST00663	779	EST00741	874	EST00793	970	EST01983
584	EST00594	678	EST01517	780	EST01549	875	EST00794	972	EST01986
585	EST00595	679	EST01518	781	EST01550	876	EST00795	974	EST01988
586	EST00596	680	EST00664	783	EST01552	877	EST01877	975	EST01989
587	EST01488	682	EST00666	785	EST01553	878	EST01878	976	EST01990
588	EST00597	683	EST00667	786	EST00742	879	EST01879	977	EST01991
589	EST00598	684	EST00668	787	EST00743	880	EST01880	978	EST01992
590	EST00599	685	EST00669	788	EST00744	882	EST01882	981	EST01995
591	EST01489	686	EST00670	789	EST00745	883	EST01883	982	EST01996
592	EST00600	688	EST00672	790	EST01554	885	EST01885	983	EST01997
593	EST00601	690	EST00674	792	EST00747	887	EST01887	984	EST01998
595	EST01840	692	EST00676	793	EST00748	889	EST01889	987	EST02001
597	EST00603	693	EST00677	794	EST01555	890	EST01890	989	EST02003
598	EST00604	694	EST00678	796	EST00750	892	EST01892	990	EST02004
599	EST00605	696	EST01521	797	EST00751	893	EST01893	991	EST02005

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992	EST02006	1086	EST02105	1184	EST02209	1274	EST02303	1363	EST02394
994	EST02008	1087	EST02106	1185	EST02210	1275	EST02304	1364	EST02395
997	EST02011	1088	EST02107	1186	EST02211	1276	EST02305	1366	EST02397
999	EST02013	1091	EST02110	1187	EST02212	1278	EST02307	1367	EST02398
1001	EST02015	1093	EST02112	1188	EST02213	1279	EST02308	1368	EST02399
1002	EST02016	1095	EST02114	1189	EST02214	1280	EST02309	1370	EST02401
1003	EST02017	1097	EST02116	1190	EST02215	1281	EST02310	1372	EST02403
1005	EST02019	1098	EST02117	1191	EST02216	1282	EST02311	1373	EST02404
1006	EST02020	1100	EST02119	1192	EST02217	1283	EST02312	1375	EST02406
1008	EST02022	1101	EST02120	1193	EST02218	1284	EST02313	1376	EST02407
1009	EST02023	1102	EST02121	1194	EST02219	1286	EST02316	1377	EST02408
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1011	EST02025	1106	EST02125	1197	EST02222	1289	EST02319	1379	EST02410
1012	EST02026	1107	EST02126	1198	EST02223	1290	EST02320	1380	EST02411
1013	EST02027	1108	EST02127	1199	EST02224	1291	EST02321	1381	EST02413
1014	EST02028	1109	EST02128	1200	EST02226	1292	EST02322	1382	EST02414
1015	EST02029	1110	EST02129	1201	EST02228	1293	EST02323		
1016	EST02030	1111	EST02131	1202	EST02229	1294	EST02324		
1017	EST02031	1112	EST02132	1203	EST02230	1295	EST02325		
1019	EST02033	1114	EST02134	1204	EST02232	1296	EST02326		
1022	EST02036	1117	EST02137	1206	EST02234	SEQ ID#	EST#		
1023	EST02037	1119	EST02139	1207	EST02235				
1024	EST02038	1120	EST02140	1208	EST02236	1298	EST02328		
1025	EST02040	1121	EST02141	1209	EST02237	1299	EST02329		
1026	EST02041	1122	EST02142	SEQ ID#	EST#	1300	EST02330		
1027	EST02042	1123	EST02143			1302	EST02332		
1028	EST02043	1124	EST02144	1211	EST02239	1303	EST02333		
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1030	EST02045	SEQ ID#	EST#	1213	EST02241	1305	EST02335		
1032	EST02048			1214	EST02242	1306	EST02336		
1033	EST02049	1127	EST02147	1215	EST02244	1307	EST02337		
1036	EST02052	1128	EST02148	1216	EST02245	1309	EST02339		
		1130	EST02150	1217	EST02246	1310	EST02340		
		1131	EST02151	1218	EST02247	1311	EST02341		
1037	EST02053	1132	EST02152	1219	EST02248	1313	EST02343		
1038	EST02054	1135	EST02155	1220	EST02249	1314	EST02344		
1040	EST02056	1136	EST02156	1221	EST02250	1315	EST02345		
1042	EST02058	1137	EST02157	1223	EST02252	1316	EST02346		
1044	EST02060	1138	EST02159	1225	EST02254	1317	EST02347		
1045	EST02061	1140	EST02162	1226	EST02255	1318	EST02348		
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1048	EST02064	1143	EST02165	1232	EST02261	1320	EST02350		
1049	EST02065	1144	EST02166	1234	EST02263	1321	EST02351		
1050	EST02066	1145	EST02167	1235	EST02264	1322	EST02352		
1051	EST02067	1148	EST02170	1236	EST02265	1323	EST02353		
1052	EST02068	1149	EST02171	1237	EST02266	1325	EST02355		
1053	EST02069	1150	EST02172	1238	EST02267	1326	EST02356		
1054	EST02070	1152	EST02174	1239	EST02268	1327	EST02357		
1055	EST02071	1153	EST02175	1240	EST02269	1328	EST02358		
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1057	EST02073	1155	EST02177	1242	EST02271	1330	EST02360		
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1062	EST02079	1160	EST02183	1249	EST02278	1337	EST02367		
1063	EST02081	1161	EST02184	1250	EST02279	1338	EST02368		
1064	EST02082	1162	EST02185	1251	EST02280	1339	EST02369		
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1066	EST02084	1165	EST02189	1253	EST02282	1343	EST02373		
1067	EST02085	1166	EST02190	1254	EST02283	1345	EST02375		
1068	EST02086	1167	EST02191	1255	EST02284	1346	EST02376		
1070	EST02088	1168	EST02193	1256	EST02285	1347	EST02377		
1071	EST02089	1169	EST02194	1257	EST02286	1349	EST02379		
1072	EST02090	1170	EST02195	1258	EST02287	1350	EST02380		
1073	EST02091	1171	EST02196	1259	EST02288	1351	EST02381		
1074	EST02092	1172	EST02197	1260	EST02289	1352	EST02382		
1075	EST02093	1173	EST02198	1261	EST02290	1353	EST02383		
1076	EST02094	1174	EST02199	1262	EST02291	1354	EST02384		
1077	EST02096	1175	EST02200	1263	EST02292	1355	EST02385		
1078	EST02097	1176	EST02201	1268	EST02297	1357	EST02387		
1079	EST02098	1177	EST02202	1269	EST02298	1358	EST02388		
1080	EST02099	1178	EST02203	1270	EST02299	1359	EST02390		
1082	EST02101	1179	EST02204	1271	EST02300	1360	EST02391		
1084	EST02103	1180	EST02205	1272	EST02301	1361	EST02392		
1085	EST02104	1182	EST02207	1273	EST02302	1362	EST02393		

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SEQ ID#	EST#								
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1387	EST02419	1486	EST02523	1593	EST02638	1690	EST00846	1800	EST00935
1389	EST02422	1487	EST02524	1594	EST02639	1691	EST01577	1801	EST00936
1390	EST02423	1488	EST02525	1596	EST02641	1696	EST00851	1802	EST00937
1391	EST02424	1489	EST02526	1597	EST02642	1697	EST00852	1803	EST01613
1392	EST02425	1490	EST02527	1598	EST02643	1702	EST00854	1806	EST00940
1393	EST02426	1491	EST02529	1600	EST02645	1703	EST00855	1808	EST00942
1394	EST02427	1494	EST02532	1601	EST02646	1705	EST00856	1810	EST00944
1396	EST02430	1497	EST02535	1603	EST02648	1707	EST01581	1812	EST02693
1398	EST02432	1498	EST02536	1604	EST02649	1709	EST00859	1813	EST00946
1400	EST02434	1501	EST02539	1605	EST02650	1711	EST00861	1814	EST00947
1402	EST02436	1504	EST02542	1606	EST02651	1712	EST00862	1815	EST01615
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1406	EST02440	1508	EST02547	1611	EST02656	1717	EST00866	1818	EST01616
1407	EST02441	1509	EST02548	1612	EST02657	1719	EST00868	1821	EST00952
1410	EST02444	1510	EST02549	1613	EST02658	1720	EST00869	1822	EST00953
1411	EST02445	1512	EST02551	1614	EST02659	1721	EST00870	1823	EST00954
1414	EST02448	1513	EST02552	1615	EST02660	1722	EST00871	1824	EST01617
1415	EST02449	1514	EST02553	1617	EST02662	1723	EST00872	1825	EST00955
1416	EST02450	1515	EST02554	1618	EST02663	1724	EST00873	1827	EST01618
1419	EST02454	1517	EST02558	1619	EST02665	1725	EST00874	1828	EST00957
1420	EST02456	1518	EST02559	1620	EST02666	1727	EST00875	1831	EST01619
1421	EST02457	1519	EST02560	1622	EST02668	1728	EST00876	1832	EST00960
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1423	EST02459	1521	EST02562	1625	EST02672	1733	EST01591	1835	EST00962
1424	EST02460	1522	EST02563	1626	EST02673	1734	EST00880	1836	EST01622
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1426	EST02462	1524	EST02565	1632	EST02679	1736	EST01592	1838	EST00964
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1437	EST02473	1538	EST02579	1643	EST00803	1750	EST00894	1851	EST00976
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1443	EST02479	1542	EST02583	1648	EST00807	1755	EST00899	1858	EST00981
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1445	EST02481	1546	EST02588	1652	EST00811	1758	EST00901	1861	EST00984
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1453	EST02489	1553	EST02595	1658	EST00816	1765	EST01600	1867	EST00990
1454	EST02490	1554	EST02597	1659	EST00817	1766	EST00906	1868	EST00991
1455	EST02491	1555	EST02598	1660	EST00818	1772	EST02691	1870	EST00993
1456	EST02492	1556	EST02599	1661	EST00819	1773	EST00911	1872	EST00995
1458	EST02495	1557	EST02600	1662	EST00820	1774	EST00912	1873	EST01630
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1462	EST02499	1565	EST02608	1666	EST00824	1779	EST00915		
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1467	EST02504	1570	EST02613	1670	EST00828	1783	EST00919		
1469	EST02506	1571	EST02614	1671	EST00829				
1470	EST02507	1573	EST02616	1672	EST00830				
1471	EST02508	1574	EST02617	1673	EST00831				
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1484	EST02521								

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1907	EST01022	2016	EST01110	2118	EST01194	2223	EST01742	2332	EST01794
1908	EST01023	2018	EST01111	2119	EST01195	2224	EST01277	2333	EST01357
1909	EST01024	2019	EST01112	2122	EST01197	2228	EST01280	2335	EST01359
1911	EST02694	2020	EST01113	2123	EST01713	2229	EST01281	2336	EST01360
1912	EST01025	2021	EST01114	2124	EST01198	2231	EST01746	2337	EST01361
1913	EST01646	2022	EST01115	2125	EST01199	2237	EST01288	2340	EST01802
1915	EST01027	2023	EST01116	2126	EST01200	2238	EST01289	2341	EST01364
1916	EST01028	2025	EST01118	2127	EST01201	2239	EST01290	2343	EST01366
1917	EST01029	2026	EST01119	2129	EST01203	2240	EST01291	2344	EST01367
1918	EST02695	2027	EST01120	2130	EST01204	2241	EST01747	2349	EST01372
1919	EST01030	2028	EST01121	2132	EST01206	2242	EST01292	2350	EST02708
1920	EST01031	2029	EST01682	2133	EST01207	2243	EST01293	2352	EST01374
1921	EST01647	2030	EST01122	2135	EST01209	2244	EST01294	2356	EST01377
1922	EST01032	2033	EST01684	2137	EST01211	2246	EST01295	2357	EST01378
1923	EST01033	2034	EST01124	2139	EST01716	2247	EST01296	2360	EST01381
1924	EST01034	2035	EST01125	2140	EST01212	2249	EST01298	2361	EST01382
1925	EST01035	2036	EST01126	2142	EST01214	2251	EST01300	2363	EST01384
1926	EST01036	2037	EST01686	2143	EST01215	2252	EST01750	2364	EST01385
1927	EST01037	2038	EST01127	2147	EST01219	2253	EST01301	2365	EST01386
1929	EST01039	2039	EST01128	2148	EST01220	2256	EST02718	2366	EST01387
1932	EST01042	2040	EST01129	2151	EST01223	2257	EST01303	2369	EST01811
1934	EST01043	2042	EST01688	2152	EST01224	2258	EST01754	2370	EST01390
1935	EST01044	2045	EST01133	2154	EST01226	2260	EST01305	2371	EST01391
1936	EST01045	2047	EST01135	2156	EST01718	2261	EST01755	2372	EST01392
1937	EST01652	2048	EST01136	2157	EST01719	2262	EST01306	2375	EST01815
1938	EST01654	2049	EST01689	2158	EST01228	2264	EST01308	2376	EST01395
1941	EST01047	2050	EST01137	2159	EST01229	2265	EST01309	2377	EST01396
1942	EST01048	2052	EST01139	2160	EST01230	2268	EST01311	2379	EST01398
1943	EST01049	2053	EST01140	2162	EST01232	2269	EST01312	2380	EST01399
1945	EST01051	2054	EST01141	2163	EST01233	2270	EST01313	2381	EST01400
1946	EST02696	2055	EST01690	2164	EST01234	2271	EST01314	2382	EST01401
1947	EST01052	2057	EST01143	2165	EST01720	2272	EST01762	2383	EST01402
1948	EST01053	2061	EST01147	2166	EST01236	2273	EST01315	2384	EST01403
1950	EST01055	2062	EST02701	2167	EST01237	2275	EST01316	2385	EST01816
1951	EST01056	2063	EST01148	2169	EST01722	2276	EST01317	2386	EST01404
1952	EST01057	2065	EST01691	2170	EST01239	2277	EST01318	2387	EST01405
1955	EST01662	2066	EST01692	2171	EST01240	2278	EST01319		
1957	EST01059	2067	EST01693	2172	EST01241	2279	EST01320		
1958	EST01060	2069	EST01150	2175	EST01243	2280	EST01763		
1959	EST01061	2070	EST01151	2177	EST01245	2284	EST01323		
1963	EST01063	2072	EST01152	2178	EST01726	SEQ ID#	EST#		
1964	EST01064	2074	EST01698	2179	EST01246				
1966	EST01065	2075	EST01153	2180	EST01247	2285	EST01768		
1968	EST01067	2076	EST02702	2181	EST01248	2287	EST01770		
1969	EST01068	2077	EST01154	SEQ ID#	EST#	2288	EST01324		
1970	EST01666	2078	EST01155			2290	EST01772		
1971	EST01069	2079	EST01156	2182	EST01249	2291	EST01773		
1972	EST01070	2080	EST01157	2183	EST01250	2292	EST01326		
1975	EST01073	SEQ ID#	EST#	2185	EST01252	2293	EST01327		
1976	EST01074			2186	EST01253	2294	EST01328		
1978	EST01076	2081	EST01158	2187	EST01727	2295	EST01329		
1979	EST01077	2082	EST01159	2188	EST01254	2296	EST01330		
SEQ ID#	EST#	2083	EST01160	2190	EST01728	2298	EST01331		
1980	EST01078	2084	EST01161	2191	EST01256	2299	EST01332		
1981	EST01079	2085	EST01162	2193	EST01258	2301	EST01334		
1983	EST01081	2086	EST01163	2194	EST01729	2304	EST01780		
1984	EST01082	2087	EST01164	2195	EST01259	2305	EST01336		
1985	EST01083	2088	EST01166	2197	EST01261	2306	EST01337		
1986	EST01084	2091	EST01168	2198	EST01730	2310	EST01341		
1988	EST01085	2093	EST01170	2199	EST01262	2311	EST01342		
1989	EST01086	2095	EST01701	2200	EST01731	2312	EST01343		
1995	EST01092	2096	EST01172	2201	EST01263	2313	EST01344		
1996	EST01093	2097	EST01173	2202	EST01732	2315	EST01346		
1998	EST01095	2098	EST01174	2205	EST01735	2316	EST01782		
1999	EST01096	2099	EST01175	2206	EST01736	2317	EST01347		
2002	EST01099	2103	EST01179	2208	EST01267	2318	EST01348		
2003	EST01675	2104	EST01180	2209	EST02717	2319	EST01349		
2005	EST01100	2107	EST01183	2210	EST01268	2321	EST01350		
2006	EST01101	2108	EST01184	2211	EST01269	2322	EST01351		
2007	EST01102	2109	EST01185	2213	EST01271	2323	EST01789		
2009	EST01677	2110	EST01186	2215	EST01273	2325	EST01353		
2010	EST01104	2111	EST01187	2218	EST01274	2327	EST01354		
2011	EST01105	2112	EST01188	2219	EST01275	2328	EST01355		
2014	EST01108	2113	EST01189	2220	EST01740	2329	EST01792		
2015	EST01109	2114	EST01190	2221	EST01741	2330	EST01793		
		2115	EST01191	2222	EST01276	2331	EST01356		

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<u>SEQ ID#</u>	<u>EST#</u>
2389	EST01407
2391	EST01415
2392	EST01416
2395	EST01419
2397	EST01421
2401	EST01424
2403	EST01425
2404	EST01426
2406	EST02713
2409	EST00273

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EXAMPLE 10

Functional Groupings of ESTs and Corresponding Genes

By matching new human ESTs to known sequences from other species, the apparent function of the gene corresponding to the EST can be ascertained. The data generated in Example 3 and 4 have been used to categorize 127 of the ESTs of the present invention, and their corresponding genes, into predicted functional groups. (These 127 are ESTs with database matches to sequences from other species for which a function was known.) Two different grouping schemes have been used.

The first scheme separates the sequences into three broad categories: metabolic; regulatory; and structural. These groupings are set out in Table 10.

The second grouping scheme separates the sequences into 13 specific categories: cell surface proteins; developmental control; energy metabolism; kinases and phosphatases; oncogenes; other metabolism-related polypeptides; peptidases and peptidase inhibitors; receptors; structural and cytoskeletal; signal transduction; transporters; transcription, translation, and subcellular localization; and transcription factors. These groupings are set out in Table 11.

Table 10: Three-Class Functional Groupings of ESTs

SEQ ID	EST#	Group	Putative Identification

1834	EST01620	M	AMP deaminase, brain
97	EST00289	M	Aconitase
691	EST00675	M	Alcohol dehydrogenase
2092	EST01700	M	Anion exchanger homolog AE3
396	EST01443	M	CDPdiacylglycerol-serine O-phosphatidyltransferase
1956	EST01663	M	Ca ²⁺ -transporting ATPase 2
1039	EST02055	M	Calcium channel
2192	EST01257	M	Diacylglycerol kinase, lymphocyte
1441	EST02477	M	Diamine acetyltransferase
2289	EST01325	M	Fatty acid synthase
310	EST00377	M	Fo ATPase beta subunit, mitochondrial
1667	EST00825	M	Gamma-aminobutyric acid transporter
1412	EST02446	M	Glutamate-aspartate carrier protein
1020	EST02034	M	Glutaminase
2326	EST01791	M	Inositol-1,4,5-trisphosphate 3-kinase
2173	EST01724	M	Lon protease
1427	EST02463	M	Long-chain-fatty-acid-CoA ligase
2226	EST01744	M	NAD(P) ⁺ transhydrogenase (B-specific)
1566	EST02609	M	Neutrophil oxidase factor
1681	EST01573	M	Nucleoside diphosphate kinase
2254	EST01751	M	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
93	EST00287	M	Processing enhancing protein
2297	EST01775	M	Prohormone cleavage enzyme
9	EST00376	M	Prolyl endopeptidase
1654	EST01572	M	Protochlorophyllide reductase
38	EST00374	M	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	M	Ribosomal protein L18a
1856	EST01627	M	Ribosomal protein L1a
1974	EST01667	M	Ribosomal protein L3
301	EST00300	M	Ribosomal protein L30
22	EST00301	M	Ribosomal protein S10
2402	EST01826	M	Ribosomal protein S10
463	EST01459	M	Ribosomal protein YL10
2073	EST01697	M	Succinate dehydrogenase flavoprotein
2138	EST01715	M	Succinate dehydrogenase flavoprotein
1771	EST01601	M	Thiosulfate sulfurtransferase (rhodanese)
2121	EST01711	M	Valine-tRNA ligase
1726	EST01588	M	XPR2 alkaline extracellular protease
913	EST01913	M	Clathrin coat assembly protein AP50 homolog
1035	EST02051	M	J1 protein
969	EST01982	R	ADP-ribosylation factor 1
1126	EST02146	R	Calbindin D28
1910	EST01645	R	Calmodulin
485	EST01466	R	Calmodulin-dependent protein kinase, type II, beta
2302	EST01779	R	Discs-large tumor suppressor
188	EST00256	R	Enhancer of split
1229	EST02258	R	KUP protein
993	EST02007	R	Kinase 5 protein
2282	EST01764	R	Lamin B receptor
SEQ ID	EST#	Group	Putative Identification

161	EST00247	R	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	R	MARCKS homolog
1386	EST02418	R	MARCKS homolog
227	EST00259	R	Notch/Xotch
952	EST01961	R	Notch/Xotch
1395	EST02429	R	Nuclear factor 1-like protein (NF1)
2353	EST01806	R	Prohibitin
1069	EST02087	R	Protein kinase C, zeta
1933	EST01650	R	Protein phosphatase 2A beta subunit

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202	EST00298	R	Protein-tyrosine phosphatase LRP
1478	EST02515	R	Rab5
1408	EST02442	R	Seven in absentia
300	EST00232	R	Transforming protein (dbl)
1147	EST02169	R	Tyrosine kinase
1348	EST02378	R	cAMP-dependent protein kinase inhibitor
1931	EST01041	R	cAMP-regulated phosphoprotein
1413	EST02447	R	cAMP-specific phosphodiesterase
37	EST00038	R	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	R	rho H12/ ARH12
299	EST00249	R	smg p25A GDP dissociation inhibitor
189	EST00282	R	trkB
1332	EST02362	R	GA binding protein, beta subunit
1277	EST02306	R	Bib protein
43	EST00371	R	Maternal G10 protein
1704	EST01580	R	Myeloid differentiation primary response gene My
346	EST01828	R	Otd homeotic protein
187	EST00152	R	Wilm's tumor-related protein
249	EST00275	R	Zinc Finger Proteins
413	EST01446	R	Zinc Finger Proteins
469	EST01460	R	Zinc Finger Proteins
833	EST01560	R	Zinc Finger Proteins
1230	EST02259	R	Zinc finger proteins
1496	EST02534	R	Zinc finger proteins
2324	EST01352	R	Zinc Finger Proteins
208	EST00250	S	60K filarial antigen
2320	EST01784	S	60K filarial antigen
251	EST00370	S	Actin, other
2146	EST01218	S	Actin, other
248	EST00271	S	Actinin, alpha
891	EST01891	S	Actinin, alpha
1500	EST02538	S	Actinin, alpha
132	EST00110	S	Agrin
1852	EST01625	S	Agrin
1965	EST01664	S	Amyloid A4
2068	EST01694	S	Amyloid A4
2408	EST00244	S	Amyloid A4
1880	EST01634	S	Axonal glycoprotein TAG-1
2004	EST01676	S	Cofilin
650	EST00642	S	Dilute (myosin heavy chain)
2217	EST01738	S	Gelation factor ABP-280
1885	EST01639	S	Histocompatibility antigen modifier 1
77	EST00257	S	Kinesin
SEQ ID	EST#	Group	Putative Identification
78	EST00258	S	Kinesin
2245	EST01748	S	Kinesin
313	EST00276	S	Lysosomal membrane glycoprotein 1 (LAMP-1)
223	EST00368	S	Microtubule-associated protein 1B
824	EST01865	S	Microtubule-associated protein 1B
2032	EST01683	S	Microtubule-associated protein 1B
2017	EST01678	S	Milk fat globule membrane protein
1567	EST02610	S	Neural cell adhesion molecule L1
506	EST01471	S	Neuraxin
2368	EST01389	S	Radial spoke protein 3
951	EST01960	S	Spectrin, beta
2089	EST01699	S	Sperm membrane protein
653	EST01512	S	Tubulin, alpha
311	EST00270	S	Tubulin, beta
594	EST01490	S	Tubulin, beta
757	EST01542	S	Tubulin, beta
1245	EST02274	S	Tubulin, beta
1589	EST02634	S	Tubulin, beta
1468	EST02505	S	Matrin 3

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1371	EST02402	S	Talin
1701	EST00853	S	Unc-104

Group Key: M: Metabolic, R: Regulatory, S: Structural

Table 11: Thirteen-Class Functional Groupings of ESTs

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
208	EST00250	CS	60K filarial antigen
2320	EST01784	CS	60K filarial antigen
1965	EST01664	CS	Amyloid A4
2068	EST01694	CS	Amyloid A4
2408	EST00244	CS	Amyloid A4
1880	EST01634	CS	Axonal glycoprotein TAG-1
1885	EST01639	CS	Histocompatibility antigen modifier 1
313	EST00276	CS	Lysosomal membrane glycoprotein 1 (LAMP-1)
2017	EST01678	CS	Milk fat globule membrane protein
1567	EST02610	CS	Neural cell adhesion molecule L1
2368	EST01389	CS	Radial spoke protein 3
2089	EST01699	CS	Sperm membrane protein
1277	EST02306	DC	Bib protein
188	EST00256	DC	Enhancer of split
43	EST00371	DC	Maternal G10 protein
1704	EST01580	DC	Myeloid differentiation primary response gene MyD1
227	EST00259	DC	Notch/Xotch
952	EST01961	DC	Notch/Xotch
346	EST01828	DC	Orthodentical homeotic protein
1408	EST02442	DC	Seven in absentia
97	EST00289	EM	Aconitase
310	EST00377	EM	Fo ATPase beta subunit, mitochondrial
485	EST01466	KP	Calmodulin-dependent protein kinase, type II, beta
993	EST02007	KP	Kinase 5 protein
1069	EST02087	KP	Protein kinase C, zeta
1933	EST01650	KP	Protein phosphatase 2A beta subunit
202	EST00298	KP	Protein-tyrosine phosphatase LRP
1348	EST02378	KP	cAMP-dependent protein kinase inhibitor
2302	EST01779	OG	Discs-large tumor suppressor
2353	EST01806	OG	Prohibitin
1478	EST02515	OG	Rab5
300	EST00232	OG	Transforming protein (dbl)
37	EST00038	OG	ras p21-like small GTP-binding protein (smg GDS)
102	EST00248	OG	rho H12/ ARH12
1834	EST01620	OM	AMP deaminase, brain
691	EST00675	OM	Alcohol dehydrogenase
396	EST01443	OM	CDPdiacylglycerol-serine O-phosphatidyltransferase
2192	EST01257	OM	Diacylglycerol kinase, lymphocyte
1441	EST02477	OM	Diamine acetyltransferase
2289	EST01325	OM	Fatty acid synthase
1020	EST02034	OM	Glutaminase
2326	EST01791	OM	Inositol-1,4,5-trisphosphate 3-kinase
1427	EST02463	OM	Long-chain-fatty-acid-CoA ligase
2226	EST01744	OM	NAD(P)+ transhydrogenase (B-specific)
1566	EST02609	OM	Neutrophil oxidase factor
1681	EST01573	OM	Nucleoside diphosphate kinase

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2254	EST01751	OM	Phosphatidylinositol-4,5-bisphosphate phosphodiesterase
1654	EST01572	OM	Protochlorophyllide reductase
2073	EST01697	OM	Succinate dehydrogenase flavoprotein
2138	EST01715	OM	Succinate dehydrogenase flavoprotein
1771	EST01601	OM	Thiosulfate sulfurtransferase (rhodanese)
2173	EST01724	PI	Lon protease
2297	EST01775	PI	Prohormone cleavage enzyme
9	EST00376	PI	Prolyl endopeptidase
1726	EST01588	PI	XPR2 alkaline extracellular protease
1147	EST02169	PP	Tyrosine kinase
2282	EST01764	RT	Lamin B receptor
189	EST00282	RT	trkB
251	EST00370	SC	Actin, other
2146	EST01218	SC	Actin, other
248	EST00271	SC	Actinin, alpha
891	EST01891	SC	Actinin, alpha
1500	EST02538	SC	Actinin, alpha
132	EST00110	SC	Agrin
1852	EST01625	SC	Agrin
2004	EST01676	SC	Cofilin
650	EST00642	SC	Dilute (myosin heavy chain)
2217	EST01738	SC	Gelation factor ABP-280
77	EST00257	SC	Kinesin
78	EST00258	SC	Kinesin
2245	EST01748	SC	Kinesin
1468	EST02505	SC	Matrin 3
223	EST00368	SC	Microtubule-associated protein 1B
824	EST01865	SC	Microtubule-associated protein 1B
2032	EST01683	SC	Microtubule-associated protein 1B
506	EST01471	SC	Neuraxin
951	EST01960	SC	Spectrin, beta
1371	EST02402	SC	Talin
653	EST01512	SC	Tubulin, alpha
311	EST00270	SC	Tubulin, beta
594	EST01490	SC	Tubulin, beta
757	EST01542	SC	Tubulin, beta
1245	EST02274	SC	Tubulin, beta
1589	EST02634	SC	Tubulin, beta
1701	EST00853	SC	Unc-104
969	EST01982	ST	ADP-ribosylation factor 1
1126	EST02146	ST	Calbindin D28
1910	EST01645	ST	Calmodulin
161	EST00247	ST	MARCKS (myristoylated alanine-rich protein kinase)
769	EST00734	ST	MARCKS homolog
1386	EST02418	ST	MARCKS homolog
1931	EST01041	ST	cAMP-regulated phosphoprotein
1413	EST02447	ST	cAMP-specific phosphodiesterase
299	EST00249	ST	smg p25A GDP dissociation inhibitor

<u>SEQ ID</u>	<u>EST#</u>	<u>Group</u>	<u>Putative Identification</u>
2092	EST01700	TP	Anion exchanger homolog AE3
1956	EST01663	TP	Ca ²⁺ -transporting ATPase 2
1039	EST02055	TP	Calcium channel
1667	EST00825	TP	Gamma-aminobutyric acid transporter
1412	EST02446	TP	Glutamate-aspartate carrier protein
913	EST01913	TT	Clathrin coat assembly protein AP50 homolog
1035	EST02051	TT	J1 protein
93	EST00287	TT	Processing enhancing protein
38	EST00374	TT	RNA polymerase II 6th subunit (RPO26)
1715	EST01583	TT	Ribosomal protein L18a
1856	EST01627	TT	Ribosomal protein L1a
1974	EST01667	TT	Ribosomal protein L3
301	EST00300	TT	Ribosomal protein L30
22	EST00301	TT	Ribosomal protein S10
2402	EST01826	TT	Ribosomal protein S10
463	EST01459	TT	Ribosomal protein YL10
2121	EST01711	TT	Valine-tRNA ligase
1332	EST02362	TX	GA binding protein, beta subunit
1229	EST02258	TX	KUP protein
1395	EST02429	TX	Nuclear factor 1-like protein (NF1)
187	EST00152	TX	Wilm's tumor-related protein
249	EST00275	TX	Zinc Finger Proteins
413	EST01446	TX	Zinc Finger Proteins
469	EST01460	TX	Zinc Finger Proteins
833	EST01560	TX	Zinc Finger Proteins
1230	EST02259	TX	Zinc finger proteins
1496	EST02534	TX	Zinc finger proteins
2324	EST01352	TX	Zinc Finger Proteins

Group Key: CS: Cell Surface, DC: Developmental Control, EM: Energy Metabolism, KP: Kinases and Phosphatases, OG: Oncogenes, OM: Other Metabolism, PI: Peptidases and Peptidase Inhibitors, RT: Receptors, SC: Structural and Cytoskeletal, ST: Signal Transduction, TP: Transporters, TT: Transcription, Translation, and Subcellular Localization, TX: Transcription Factors.

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EXAMPLE 11

cDNA Libraries Generated From Specific Genomic DNA
by Exon Expression & Amplification

5

Exon amplification was used to express potential exons from genomic DNA in a recombinant vector that contains some of the signals necessary for splicing. If an exon is present in the proper orientation in the vector, that exon will be spliced in a mammalian cell and will become part of the mRNA of that cell. The exon splice-product can be purified from other mRNA in the cell by conversion of the mRNA to cDNA and selective amplification of the recombinant splice-product cDNAs. Cosmid DNA from human chromosome 19q13.3 was digested with BamHI or BamHI/BglII restriction enzymes. The fragments generated were collected and size specifically cloned into an expression vector (Buckler, et al. Proc. Nat'l. Acad. Sci. USA, 88:4005-4009 (1991)). After transfection by electroporation of these constructs into COS cells, RNA transcripts were generated using the SV40 early promoter and a polyadenylation signal derived from SV40 both present in the expression vector. When a fragment of genomic DNA contains an entire exon with flanking intron sequence in the sense orientation, the exon should be retained in the mature poly(A)+ cytoplasmic RNA. Therefore, the mRNA was used as template for cDNA synthesis using reverse transcriptase and vector-priming. Subsequently, the cDNAs were amplified by vector-priming using PCR. A fraction of this first PCR product was reamplified using internal vector-primers containing terminal cloning sites. These products were end-repaired with T4 DNA polymerase, digested with the appropriate restriction enzymes, gel purified and cloned into pBluescript vectors. The constructs were transfected into XL1-Blue competent cells and plated on LB/X-gal/IPTG/ampicillin plates. White colonies were selected and expanded to prepare DNA templates as described in Example 2.

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When multiple cosmids or YAC clones were used as the source DNA, a pool of specific expressed exons was obtained as a cDNA library. The EST/cDNAs sequenced from this specific library are disclosed herein as SEQ ID NOS: 2412-2417.

5

EXAMPLE 12**PCR Amplification from Predicted Exons**

10 Computational analyses can be applied to genomic DNA sequences to predict protein coding regions. The coding region prediction program CRM (E. Uberbacher and R. Mural, Proc. Natl. Acad. Sci. USA 88:11261-5 (1991)) finds open reading frames and classifies them according to their probability of being coding regions. These regions are subsequently examined using the GM program (C. Fields and C. Soderlund, Comp. Applic. Biosci. 6: 263, 1990), which predicts intron-exon structure. PCR primers are then designed to amplify the predicted exons and used to test human cDNA libraries (for example, fetal brain or placental libraries) for the presence of these putative exons using a PCR assay.

25 This strategy has been successfully applied in two large scale genomic sequencing projects, the Huntington's locus of human chromosome 4p16.3 (McCombie, et al., submitted) and human chromosome locus 19q13.3 (Martin-Gallardo, et al., submitted). Sequences from eleven predicted exons from chromosome 4 were present in tested cDNA libraries, indicating that this region has at least two and probably three expressed genes. In one case, the method resulted in an amplification product which spanned two predicted exons. (SEQ ID NO: 2411.) When sequenced, this PCR product indicated the presence of the two exons from which the primers were initially chosen, as well as an intervening exon which was also predicted by the CRM program, but not the intervening genomic sequences. In a similar fashion, the presence of the two predicted genes in the chromosome 19

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sequence was confirmed by sequencing PCR products. SEQ ID NO 2410, includes a partial exon of one of these genes.

EXAMPLE 13

5

Complete Sequence of EST Clone Inserts

There are a number of methods known to those with skill in the art of molecular biology, to obtain sequence information from the cDNAs corresponding to the EST sequences. Procedures for these methods are provided in Basic Methods in Molecular Biology (David et al. *supra*). One way to acquire more information about the cDNA from which an EST was derived is to sequence the remainder of the cDNA clone. The complete sequence of the inserts of four EST clones (representing SEQ ID NOs 188, 189, 223, and 227) was determined using Exonuclease III deletions. Briefly, EST clones were digested with the restriction enzymes SalI and KpnI or PstI and BamHI (for deletions from the Forward primer and Reverse primer ends of the insert, respectively). The KpnI and PstI enzymes leave 3' sticky ends following digestion, which Exonuclease III is unable to bind. This results in unidirectional deletions into the cDNA insert leaving the vector sequence undisturbed. After addition of Exonuclease III to the Forward and Reverse deletion reactions, aliquots of the reaction were removed at defined time intervals and the reaction was stopped to prevent further deletion. S1 nuclease and Klenow DNA polymerase were added to create blunt ended fragments suitable for ligation.

Samples for each time point was purified by electrophoresis through an agarose gel and religated. Two to four representative clones from each time point in each direction were sequenced to give between 200 and 400 base pairs of sequence data. Careful selection of deletion conditions and time points allow a deletion series of approximately 100-200 base pairs difference in length at each consecutive time point. Sequence fragments were reassembled into a redundant contiguous sequence using the INHERIT

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software from Applied Biosystems, Inc. (Foster City, CA). In this way, the complete insert from these four cDNA clones was sequenced on both strands to an average redundancy between three and four (each base was sequenced between three and four times, on average). Those complete insert sequences are disclosed herein as SEQ ID 2418, 2419, 2420, and 2421, corresponding to original ESTs with SEQ ID 223, 189, 227, and 188, respectively.

EXAMPLE 14

Determining Reading Frame, Orientation, Coding Regions: ESTs and Complete cDNA Sequences

Once the complete cDNA sequence has been determined in accordance with Example 13, the reading frame, orientation, and coding regions are determined by computer techniques. (The complete coding region is considered to be the largest open reading frame from a methionine to a stop codon.)

Specifically, the CRM program on the GRAIL server is used as explained in Example 9 to determine probable coding regions. This information is supplemented by location of start and stop codons. Where possible, the results of the CRM analysis are validated by comparison of the cDNA sequence to known sequences using database matching, in accordance with Examples 3 and 4. If a match of 50% (or even less) is found in any particular reading frame and orientation, this serves to verify corresponding CRM results. Alternatively, database matches can be used to determine reading frame and orientation without use of the CRM program. Of course, if the cDNA is derived from a directional library, the probable orientation is already known.

EXAMPLE 15

Preparation of PCR Primers and Amplification of DNA

The EST sequences and the corresponding cDNA sequences and genomic sequences may be used, in accordance with the

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present invention, to prepare PCR primers for a variety of applications. The PCR primers are preferably at least 15 bases, and more preferably at least 18 bases in length. The procedure of Example 5 is repeated using the desired EST, or using the corresponding cDNA or genomic DNA sequence from Example 13. It is preferred that the primer pairs have approximately the same G/C ratio, so that melting temperatures are approximately the same. When screening cDNA, introns are of no concern; however, when screening genomic DNA, primers should be selected to avoid reading across introns, which usually are too large to amplify. The PCR primers and amplified DNA of this Example find use in the Examples that follow.

EXAMPLE 16

Forensic Matching by DNA Sequencing

In one exemplary method, DNA samples are isolated from forensic specimens of, for example, hair, semen, blood or skin cells by conventional methods. A panel of PCR primers derived from a number of the sequences of Example 1, 2, 11, 12 and/or 13 is then utilized in accordance with Example 12 to obtain DNA of approximately 100-200 bases in length from the forensic specimen. Corresponding sequences are obtained from a suspect. Each of these identification DNAs is then sequenced, and a simple database comparison determines the differences, if any, between the sequences from the suspect and those from the sample. Statistically significant differences between the suspect's DNA sequences and those from the sample conclusively prove a lack of identity. This lack of identity can be proven, for example, with only one sequence. Identity, on the other hand, should be demonstrated with a large number of sequences, all matching. Preferably, a minimum of 50 statistically identical sequences

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of 100 bases in length are used to prove identity between the suspect and the sample.

EXAMPLE 17

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Positive Identification by DNA Sequencing

The technique outlined in the previous example may also be used on a larger scale to provide a unique fingerprint-type identification of any individual. In this technique, primers are prepared from a large number of sequences from Examples 1, 2, 11, 12 and/or 13. Preferably, 20 to 50 different primers are used. These primers are used to obtain a corresponding number of PCR-generated DNA segments from the individual in question in accordance with Example 15. Each of these DNA segments is sequenced, using the methods set forth in Example 1. The database of sequences generated through this procedure uniquely identifies the individual from whom the sequences were obtained. The same panel of primers may then be used at any later time to absolutely correlate tissue or other biological specimen with that individual.

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EXAMPLE 18

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Southern Blot Forensic Identification

The procedure of Example 17 is repeated to obtain a panel of from 10 to 2000 amplified sequences from an individual and a specimen. This PCR-generated DNA is then digested with one or a combination of, preferably, four base specific restriction enzymes. Such enzymes are commercially available and known to those of skill in the art. After digestion, the resultant gene fragments are size separated in multiple duplicate wells on an agarose gel and transferred to nitrocellulose using Southern blotting techniques well known to those with skill in the art. For a review of Southern

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blotting see Davis et al. (Basic Methods in Molecular Biology, 1986, Elsevier Press. pp 62-65).

A panel of ESTs or complete cDNA sequences from Examples 1, 2, and/or 13, or fragments thereof of at least 15 bases, are radioactively or colorimetrically labeled using end-labeled oligonucleotides derived from the ESTs, nick translated sequences or the like using methods known in the art and hybridized to the Southern blot using techniques known in the art (Davis et al., supra). Preferably, at least 5 to 10 of these labeled probes are used, and more preferably at least about 20 or 30 are used to provide a unique pattern. The resultant bands appearing from the hybridization of a large sample of ESTs will be a unique identifier. Since the restriction enzyme cleavage will be different for every individual, the band pattern on the Southern blot will also be unique. Increasing the number of EST probes will provide a statistically higher level of confidence in the identification since there will be an increased number of sets of bands used for identification.

EXAMPLE 19

Dot Blot Identification Procedure

Another technique for identifying individuals using the sequences disclosed herein utilizes a dot blot hybridization technique.

Genomic DNA is isolated from nuclei of subject to be identified. Oligonucleotide probes of approximately 30 bp in length were synthesized that correspond to sequences from the ESTs. The probes are used to hybridize to the genomic DNA through conditions known to those in the art. The oligonucleotides are end labelled with P^{32} using polynucleotide kinase (Pharmacia). Dot Blots are created by spotting about 50 ng cDNA of at least 10, preferably at least 50 sequences corresponding to a variety of the Sequence ID

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NOs provided in Table 7 onto nitrocellulose or the like using a vacuum dot blot manifold (BioRad, Richmond California). The nitrocellulose filter containing the EST clone sequences is baked or UV linked to the filter, prehybridized and hybridized with labeled probe using techniques known in the art (Davis et al. supra). The ^{32}P labeled DNA fragments are sequentially hybridized with successively stringent conditions to detect minimal differences between the 30 bp sequence and the DNA. Tetramethylammonium chloride is useful for identifying clones containing small numbers of nucleotide mismatches (Wood et al., Proc. Natl. Acad. Sci. USA 82(6):1585-1588 (1985) which is hereby incorporated by reference. A unique pattern of dots distinguishes one individual from another individuals.

EXAMPLE 20

Alternative "Fingerprint" Identification Technique

EST sequences and the corresponding complete cDNA sequences can be used to create a unique fingerprint for an individual. Thus pools of EST sequences can be used in forensics, paternity suits or the like to differentiate one individual from another.

Entire EST sequences can be used; similarly oligonucleotides can be prepared from EST sequences. In this example, 20-mer oligonucleotides are prepared from 200 EST sequences using commercially available oligonucleotide services such as Oligos Etc., Wilsonville, OR. Patient cell samples are processed for DNA using techniques well known to those with skill in the art. The nucleic acid is digested with restriction enzymes EcoRI and XbaI. Following digestion, samples are applied to wells for electrophoresis. The procedure, as known in the art, may be modified to accommodate polyacrylamide electrophoresis, however in this example, samples containing 5 ug of DNA are loaded into wells

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and separated on 0.8% agarose gels. The gels are transferred using Southern blotting techniques onto nitrocellulose.

10 ng of each of the oligos are pooled and end-labeled with P^{32} . The nitrocellulose is prehybridized with blocking solution and hybridized with the labeled probes. Following hybridization and washing, the nitrocellulose filter is exposed to X-Omat AR X-ray film. The resulting hybridization pattern will be unique for each individual.

It is additionally contemplated within this example that the representative number of EST sequences can be varied for additional accuracy or clarity.

EXAMPLE 21

Identification of genes associated with hereditary diseases

This example illustrates an approach useful for the association of EST sequences with particular phenotypic characteristics. In this example, a particular EST is used as a test probe to associate that EST with a particular phenotypic characteristic.

An EST clone corresponding to EST01643, (SEQ ID NO 1894) maps to a gene rich region of chromosome 6. EST clone HHCMH89, from which EST01643 was derived, was mapped to chromosome 6p21 by Dr. Julie Korenberg of UCLA/Cedar Sinai Hospital using FISH. A search of Mendelian Inheritance in Man (supra) revealed 6p21 to be a very gene rich region containing several known genes and several diseases for which genes have not been identified. The cDNA encoded by EST clone HHCMH89 thus becomes an immediate candidate for each of these genetic diseases.

Cells from patients with these diseases are isolated and expanded in culture. PCR primers from the EST sequences are used to screen genomic DNA and RNA or cDNA from the patients. ESTs that are not amplified in the patients can be positively associated with a particular disease by further analysis.

EXAMPLE 22

Identification of a gene associated with
Angelman's disease

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Angelman's disease (AD) is characterized by deletions on the long arm of chromosome 15 (15q11q13) (Williams et al. Am. J. Med. Genet. 32:339-345 (1989) hereby incorporated by reference). The symptoms of the disease include developmental delay, seizures, inappropriate laughter and ataxic movements. These symptoms suggest that the disorder is a neurologic deficiency. This prophetic example illustrates how ESTs, preferably obtained from a cDNA library from human brain, may be used in identifying the defective gene or genes associated with Angelman's Disease. (The example is based on analogous work with genomic DNA, rather than cDNA and ESTs, in identifying the genetic defect associated with Angelman's Disease.) This example also illustrates how EST sequences may generally be used for identifying gene sequences associated with an inherited disease that is mapped to a chromosome location.

ESTs are screened using techniques described in Example 5 and Example 7 to identify those ESTs that localize to the long arm of chromosome 15 and preferably localize to chromosome 15 bands 15q11q13 from normal patients. ESTs that bind to the long arm of chromosome 15 are hybridized to chromosome 15 from AD patients. These studies are preferably performed using either fluorescence in situ hybridization or using somatic cell hybrids that contain fragments from the long arm of chromosome 15 from AD patients. Those chromosome 15-specific ESTs that do not map to chromosome 15 from AD patients are useful as markers for Angelman's Disease and can be incorporated into diagnostics for genetic screening. These ESTs are associated with chromosome deletions present in Angelman's disease. Identification of the gene associated with these AD negative ESTs and an analysis of the polypeptides encoded by the genes

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from normal patients is essential for providing gene or other therapies for AD patients.

Genetic diseases are not always accompanied by gene deletions. Therefore, it is also important to use the ESTs that bind to bands 15q11q13 from AD patients as tools to identify the polymorphisms present within the disease population. Restriction fragment length polymorphism (RFLP) analysis can be performed on patient cells from AD disease or from somatic cell hybrids created using the long arm of chromosome 15. For a review of RFLP techniques see Donis-Keller et al. (Cell 51:319-337 (1987) hereby incorporated by reference). DNA is isolated from the somatic cell lines or from cells from AD patients. The DNA is digested with one or more restriction enzymes according to techniques of Donis-Keller et al. The resulting fragments are separated by gel electrophoresis, denatured, transferred to nitrocellulose and hybridized with the selected radio-labeled ESTs that localize to the region of interest. The autoradiographic pattern is compared both to a number of AD patients and to normal patients. Common patterns of EST hybridization in AD patients that are not present in normal patients indicates that the genes associated with these ESTs are candidate genes affected by AD.

cDNA libraries are prepared from the somatic cell hybrids from AD patients. Libraries are prepared using Lambda Zap II Library Kits (Stratagene, La Jolla, California) or other commercially available library kits. The ESTs of interest are used as probes to identify those bacterial colonies carrying genes corresponding to the EST probes. Positive clones are sequenced and the sequences are compared to homologous gene sequences derived from normal patients.

Alterations, including deletions and substitutions, within gene sequences, associated with bands 15q11q13, are thus positively identified and associated with AD disease. Wagstaff et al. were able to identify deletions and substitutions in sequences encoding the GABA_A receptor

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protein subunit from patients with Angelman's disease (*Am. J. Hum. Genet.* 49:330-337, (1991)). It is likely that other genes will additionally be associated with the disease.

5

EXAMPLE 23**Preparation and Use of Antisense Oligonucleotides**

Antisense RNA molecules are known to be useful for
10 regulating translation within the cell. Antisense RNA
molecules can be produced from EST sequences or from the
corresponding gene sequences. These antisense molecules can
be used as diagnostic probes to determine whether or not a
particular gene is expressed in a cell. Similarly, the
15 antisense molecules can be used as a therapeutic to regulate
gene expression once the EST is associated with a particular
disease (see Example 22).

The antisense molecules are obtained from a nucleotide
sequence by reversing the orientation of the coding region
20 with regard to the promoter. Thus, the antisense RNA is
complementary to the corresponding mRNA. For a review of
antisense design see Green et al., *Ann. Rev. Biochem.* 55:569-
597 (1986), which is hereby incorporated by reference. The
antisense sequences can contain modified sugar phosphate
25 backbones to increase stability and make them less sensitive
to RNase activity. Examples of the modifications are
described by Rossi et al., *Pharmacol. Ther.* 50(2):245-254,
(1991).

Antisense molecules are introduced into cells that
30 express the gene corresponding to the EST of interest in
culture. In a preferred application of this invention, the
polypeptide encoded by the gene is first identified, so that
the effectiveness of antisense inhibition on translation can
be monitored using techniques that include but are not
35 limited to antibody-mediated tests such as RIAs and ELISA,
functional assays, or radiolabelling. The antisense molecule
is introduced into the cells by diffusion or by transfection

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procedures known in the art. The molecules are introduced onto cell samples at a number of different concentrations preferably between $1 \times 10^{-10} \text{M}$ to $1 \times 10^{-4} \text{M}$. Once the minimum concentration that can adequately control translation is identified, the optimized dose is translated into a dosage suitable for use in vivo. For example, an inhibiting concentration in culture of 1×10^{-7} translates into a dose of approximately 0.6 mg/kg bodyweight. Levels of oligonucleotide approaching 100 mg/kg bodyweight or higher may be possible after testing the toxicity of the oligonucleotide in laboratory animals.

The antisense can be introduced into the body as a bare or naked oligonucleotide, oligonucleotide encapsulated in lipid, oligonucleotide sequence encapsidated by viral protein, or as oligonucleotide contained in an expression vector such as those described in Example 25. The antisense oligonucleotide is preferably introduced into the vertebrate by injection. It is additionally contemplated that cells from the vertebrate are removed, treated with the antisense oligonucleotide, and reintroduced into the vertebrate. It is further contemplated that the antisense oligonucleotide sequence is incorporated into a ribozyme sequence to enable the antisense to bind and cleave its target. For technical applications of ribozyme and antisense oligonucleotides see Rossi et al.

EXAMPLE 24

Preparation and use of Triple Helix Probes

Triple helix oligonucleotides are used to inhibit transcription from a genome. They are particularly useful for studying alterations in cell activity as it is associated with a particular gene. The EST sequences or complete sequences of the present invention or, more preferably, a portion of those sequences, can be used to inhibit gene

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expression in individuals having diseases associated with a particular gene. Similarly, a portion of the EST or corresponding gene sequence can be used to study the effect of inhibiting transcription of a particular gene within a cell. Traditionally, homopurine sequences were considered the most useful. However, homopyrimidine sequences can also inhibit gene expression. Thus, both types of sequences from either the EST or from the gene corresponding to the EST are contemplated within the scope of this invention. Homopyrimidine oligonucleotides bind to the major groove at homopurine:homopyrimidine sequences. As an example, 10-mer to 20-mer homopyrimidine sequences from the ESTs can be used to inhibit expression from homopurine sequences. SEQ ID NOS such as 282, 888, 719, 670, 994, 240, 873 and 761 contain homopyrimidine 15-mers. Moreover the natural (beta) anomers of the oligonucleotide units can be replaced with alpha anomers to render the oligonucleotide more resistant to nucleases. Further, an intercalating agent such as ethidium bromide, or the like, can be attached to the 3' end of the alpha oligonucleotide to stabilize the triple helix. For information on the generation of oligonucleotides suitable for triple helix formation see Griffin et al. (*Science* 245:967-971 (1989), which is hereby incorporated by this reference).

The oligonucleotides may be prepared on an oligonucleotide synthesizer or they may be purchased commercially from a company specializing in custom oligonucleotide synthesis. The sequences are introduced into cells in culture using techniques known in the art that include but are not limited to calcium phosphate precipitation, DEAE-Dextran, electroporation, liposome-mediated transfection or native uptake. Treated cells are monitored for altered cell function. These cell functions are predicted based upon the homologies of the gene, corresponding to the EST from which the oligonucleotide was derived, with known genes sequences that have been associated

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with a particular function. The cell functions can also be predicted based on the presence of abnormal physiologies within cells derived from individuals with a particular inherited disease, particularly when the EST is associated
5 with the disease using techniques described in Example 22.

EXAMPLE 25

Gene expression from DNA Sequences Corresponding to ESTs

10

A gene sequence of the present invention coding for all or part of a human gene product is introduced into an expression vector using conventional technology. (Techniques to transfer cloned sequences into expression vectors that
15 direct protein translation in mammalian, yeast, insect or bacterial expression systems are well known in the art.) Commercially available vectors and expression systems are available from a variety of suppliers including Stratagene (La Jolla, California), Promega (Madison, Wisconsin), and
20 Invitrogen (San Diego, California). If desired, to enhance expression and facilitate proper protein folding, the codon context and codon pairing of the sequence may be optimized for the particular expression organism, as explained by Hatfield, et al., U.S. Patent No. 5,082,767, incorporated
25 herein by this reference.

The following is provided as one exemplary method to generate polypeptide from cloned cDNA sequences. The cDNA from the EST of interest is sequenced to identify the methionine initiation codon for the gene and the poly A
30 sequence. If the cDNA lacks a poly A sequence, this sequence can be added to the construct by, for example, splicing out the Poly A sequence from pSG5 (Stratagene) using BglI and SalI restriction endonuclease enzymes and incorporating it into the mammalian expression vector pXT1 (Stratagene). pXT1
35 contains the LTRs and a portion of the gag gene from Moloney Murine Leukemia Virus. The position of the LTRs in the construct allow efficient stable transfection. The vector

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includes the Herpes Simplex Thymidine Kinase promoter and the selectable neomycin gene. The cDNA is obtained by PCR from the bacterial vector using oligonucleotide primers complementary to the cDNA and containing restriction endonuclease sequences for Pst I incorporated into the 5' primer and BglII at the 5' end of the corresponding cDNA 3' primer, taking care to ensure that the cDNA is positioned inframe with the poly A sequence. The purified fragment obtained from the resulting PCR reaction is digested with PstI, blunt ended with an exonuclease, digested with Bgl II, purified and ligated to pXT1, now containing a poly A sequence and digested BglII.

The ligated product is transfected into mouse NIH 3T3 cells using Lipofectin (Life Technologies, Inc., Grand Island, New York) under conditions outlined in the product specification. Positive transfectants are selected after growing the transfected cells in 600ug/ml G418 (Sigma, St. Louis, Missouri). The protein is preferably released into the supernatant. However if the protein has membrane binding domains, the protein may additionally be retained within the cell or expression may be restricted to the cell surface.

Since it may be necessary to purify and locate the transfected product, synthetic 15-mer peptides synthesized from the predicted cDNA sequence are injected into mice to generate antibody to the polypeptide encoded by the cDNA.

If antibody production is not possible, the cDNA sequence is additionally incorporated into eukaryotic expression vectors and expressed as a chimeric with, for example, β -globin. Antibody to β -globin is used to purify the chimeric. Corresponding protease cleavage sites engineered between the β -globin gene and the cDNA are then used to separate the two polypeptide fragments from one another after translation. One useful expression vector for generating β -globin chimerics is pSG5 (Stratagene). This vector encodes rabbit β -globin. Intron II of the rabbit β -globin gene facilitates splicing of the expressed transcript,

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and the polyadenylation signal incorporated into the construct increases the level of expression. These techniques as described are well known to those skilled in the art of molecular biology. Standard methods are published in methods texts such as Davis et al. and many of the methods are available from the technical assistance representatives from Stratagene, Life Technologies, Inc., or Promega. Polypeptide may additionally be produced from either construct using in vitro translation systems such as In vitro Express™ Translation Kit (Stratagene).

Example 26

Production of an Antibody to a Human Protein

Substantially pure protein or polypeptide is isolated from the transfected or transformed cells as described in Example 25. Concentration of protein in the final preparation is adjusted, for example, by concentration on an Amicon filter device, to the level of a few micrograms/ml. Monoclonal or polyclonal antibody to the protein can then be prepared as follows:

A. Monoclonal Antibody Production by Hybridoma Fusion

Monoclonal antibody to epitopes of any of the peptides identified and isolated as described can be prepared from murine hybridomas according to the classical method of Kohler, G. and Milstein, C., Nature 256:495 (1975) or derivative methods thereof. Briefly, a mouse is repetitively inoculated with a few micrograms of the selected protein over a period of a few weeks. The mouse is then sacrificed, and the antibody producing cells of the spleen isolated. The spleen cells are fused by means of polyethylene glycol with mouse myeloma cells, and the excess unfused cells destroyed by growth of the system on selective media comprising aminopterin (HAT media). The successfully fused cells are diluted and aliquots of the dilution placed in wells of a

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microtiter plate where growth of the culture is continued. Antibody-producing clones are identified by detection of antibody in the supernatant fluid of the wells by immunoassay procedures, such as Elisa, as originally described by Engvall, E., *Meth. Enzymol.* 70:419 (1980), and derivative methods thereof. Selected positive clones can be expanded and their monoclonal antibody product harvested for use. Detailed procedures for monoclonal antibody production are described in Davis, L. et al. **Basic Methods in Molecular Biology** Elsevier, New York. Section 21-2.

B. Polyclonal Antibody Production by Immunization

Polyclonal antiserum containing antibodies to heterogenous epitopes of a single protein can be prepared by immunizing suitable animals with the expressed protein described above, which can be unmodified or modified to enhance immunogenicity. Effective polyclonal antibody production is affected by many factors related both to the antigen and the host species. For example, small molecules tend to be less immunogenic than other and may require the use of carriers and adjuvant. Also, host animals vary in response to site of inoculations and dose, with both inadequate or excessive doses of antigen resulting in low titer antisera. Small doses (ng level) of antigen administered at multiple intradermal sites appears to be most reliable. An effective immunization protocol for rabbits can be found in Vaitukaitis, J. et al. *J. Clin. Endocrinol. Metab.* 33:988-991 (1971).

Booster injections can be given at regular intervals, and antiserum harvested when antibody titer thereof, as determined semi-quantitatively, for example, by double immunodiffusion in agar against known concentrations of the antigen, begins to fall. See, for example, Ouchterlony, O. et al., Chap. 19 in: **Handbook of Experimental Immunology** D. Wier (ed) Blackwell (1973). Plateau concentration of antibody is usually in the range of 0.1 to 0.2 mg/ml of serum (about 12 μ M). Affinity of the antisera for the antigen is

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determined by preparing competitive binding curves, as described, for example, by Fisher, D., Chap. 42 in: **Manual of Clinical Immunology**, 2d Ed. (Rose and Friedman, eds.) Amer. Soc. For Microbiol., Washington, D.C. (1980).

5 Antibody preparations prepared according to either protocol are useful in quantitative immunoassays which determine concentrations of antigen-bearing substances in biological samples; they are also used semi-quantitatively or qualitatively to identify the presence of antigen in a
10 biological sample.

EXAMPLE 27

Identification of Tissue Types or Cell Species by Means of Labeled Tissue Specific Antibodies

15 Identification of specific tissues is accomplished by the visualization of tissue specific antigens by means of antibody preparations according to Example 26 which are conjugated, directly or indirectly to a detectable marker.
20 Selected labeled antibody species bind to their specific antigen binding partner in tissue sections, cell suspensions, or in extracts of soluble proteins from a tissue sample to provide a pattern for qualitative or semi-qualitative interpretation.

25 Antisera for these procedures must have a potency exceeding that of the native preparation, and for that reason, antibodies are concentrated to a mg/ml level by isolation of the gamma globulin fraction, for example, by ion-exchange chromatography or by ammonium sulfate
30 fractionation. Also, to provide the most specific antisera, unwanted antibodies, for example to common proteins, must be removed from the gamma globulin fraction, for example by means of insoluble immunoabsorbents, before the antibodies are labeled with the marker. Either monoclonal or
35 heterologous antisera is suitable for either procedure.

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A. Immunohistochemical Techniques

Purified, high-titer antibodies, prepared as described above, are conjugated to a detectable marker, as described, for example, by Fudenberg, H., Chap. 26 in: **Basic & Clinical Immunology**, 3rd Ed. Lange, Los Altos, California (1980) or Rose, N. et al., Chap. 12 in: **Methods in Immunodiagnosis**, 2d Ed. John Wiley & Sons, New York (1980).

A fluorescent marker, either fluorescein or rhodamine, is preferred, but antibodies can also be labeled with an enzyme that supports a color producing reaction with a substrate, such as horseradish peroxidase. Markers can be added to tissue-bound antibody in a second step, as described below. Alternatively, the specific antitissue antibodies can be labeled with ferritin or other electron dense particles, and localization of the ferritin coupled antigen-antibody complexes achieved by means of an electron microscope. In yet another approach, the antibodies are radiolabeled, with, for example ^{125}I , and detected by overlaying the antibody treated preparation with photographic emulsion.

Preparations to carry out the procedures can comprise monoclonal or polyclonal antibodies to a single gene copy or protein, identified as specific to a tissue type, for example, brain tissue, or antibody preparations to several antigenically distinct tissue specific antigens can be used in panels, independently or in mixtures, as required.

Tissue sections and cell suspensions are prepared for immunohistochemical examination according to common histological techniques. Multiple cryostat sections (about 4 μm , unfixed) of the unknown tissue and known control, are mounted and each slide covered with different dilutions of the antibody preparation. Sections of known and unknown tissues should also be treated with preparations to provide a positive control, a negative control, for example, pre-immune sera, and a control for non-specific staining, for example, buffer.

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Treated sections are incubated in a humid chamber for 30 min at room temperature, rinsed, then washed in buffer for 30-45 min. Excess fluid is blotted away, and the marker developed.

5 If the tissue specific antibody was not labeled in the first incubation, it can be labeled at this time in a second antibody-antibody reaction, for example, by adding fluorescein- or enzyme-conjugated antibody against the immunoglobulin class of the antiserum-producing species, for
10 example, fluorescein labeled antibody to mouse IgG. Such labeled sera are commercially available.

 The antigen found in the tissues by the above procedure can be quantified by measuring the intensity of color or fluorescence on the tissue section, and calibrating that
15 signal using appropriate standards.

B. Identification of Tissue Specific Soluble Proteins

 The visualization of tissue specific proteins and identification of unknown tissues from that procedure is carried out using the labeled antibody reagents and detection
20 strategy as described for immunohistochemistry; however the sample is prepared according to an electrophoretic technique to distribute the proteins extracted from the tissue in an orderly array on the basis of molecular weight for detection.

 A tissue sample is homogenized using a Virtis apparatus; cell suspensions are disrupted by Dounce homogenization or
25 osmotic lysis, using detergents in either case as required to disrupt cell membranes, as is the practice in the art. Insoluble cell components such as nuclei, microsomes, and membrane fragments are removed by ultracentrifugation, and
30 the soluble protein-containing fraction concentrated if necessary and reserved for analysis.

 A sample of the soluble protein solution is resolved into individual protein species by conventional SDS polyacrylamide electrophoresis as described, for example, by
35 Davis, L. et al., Section 19-2 in: **Basic Methods in Molecular Biology** (P. Leder, ed), Elsevier, New York (1986), using a

range of amounts of polyacrylamide in a set of gels to resolve the entire molecular weight range of proteins to be detected in the sample. A size marker is run in parallel for purposes of estimating molecular weights of the constituent proteins. Sample size for analysis is a convenient volume of from 5-50 μ l, and containing from about 1 to 100 μ g protein. An aliquot of each of the resolved proteins is transferred by blotting to a nitrocellulose filter paper, a process that maintains the pattern of resolution. Multiple copies are prepared. The procedure, known as Western Blot Analysis, is well described in Davis, L. et al., (above) Section 19-3. One set of nitrocellulose blots is stained with Coomassie Blue dye to visualize the entire set of proteins for comparison with the antibody bound proteins. The remaining nitrocellulose filters are then incubated with a solution of one or more specific antisera to tissue specific proteins prepared as described in Example 26. In this procedure, as in procedure A above, appropriate positive and negative sample and reagent controls are run.

In either procedure A or B, a detectable label can be attached to the primary tissue antigen-primary antibody complex according to various strategies and permutations thereof. In a straightforward approach, the primary specific antibody can be labeled; alternatively, the unlabeled complex can be bound by a labeled secondary anti-IgG antibody. In other approaches, either the primary or secondary antibody is conjugated to a biotin molecule, which can, in a subsequent step, bind an avidin conjugated marker. According to yet another strategy, enzyme labeled or radioactive protein A, which has the property of binding to any IgG, is bound in a final step to either the primary or secondary antibody.

The visualization of tissue specific antigen binding at levels above those seen in control tissues to one or more tissue specific antibodies, prepared from the gene sequences identified from EST sequences, can identify tissues of unknown origin, for example, forensic samples, or

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differentiated tumor tissue that has metastasized to foreign bodily sites.

The entire contents of all references cited above are hereby incorporated by reference.

5 While the present invention has been described in some detail for purposes of clarity and understanding, one skilled in the art will appreciate that various changes in form and detail can be made without departing from the true scope of the invention.

10

VII. Correlation of EST and Clone Identifiers

15 The EST sequences of the present invention are identified herein by SEQ ID NO, and are identified in the GenBank database by a different number, are identified in the inventors' lab (and upcoming publications) by EST number, and clones have been submitted to the American Type Culture Collection (Rockville, Maryland USA) under clone names. Table 12 cross references those different numbers for the ESTs from cDNA, SEQ ID NOS 1-2409.

20 Certain Sequence ID NOS are excluded from some claims based on their homology to known non-human sequences (See Table 2).

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Table 12. SEQ ID NO Cross References

SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone	SEQ ID	EST#	GB#	Clone
1	EST00007	M61959	HFA01	64	EST00066	M62010	HCC13	128	EST00252	M62191	HCC57	130	EST00321	M62254	HCC60
2	EST00009	M61953	HFA05	65	EST00067	M62011	HCC18	129	EST00322	M62255	HCC61	131	EST00323	M62256	HCC62
3	EST00010	M61961	HFA07	66	EST00068	M62012	HCC21	130	EST00324	M62257	HCC63	132	EST00325	M62258	HCC64
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186	EST000152	M62092	HHC176	253	EST000199	M62138	HHC5B05	321	EST000383	M78235	HEFBA07
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421	EST00468	78327	HBBA78	487	EST00523	77917	HBBA71	554	EST00577	78379	HBBA63
422	EST01447	78328	HBBA79	488	EST00524	77918	HBBA72	555	EST00578	78380	HBBA64
423	EST00469	78329	HBBA80	489	EST00525	77919	HBBA73	556	EST00579	78381	HBBA65
424	EST00470	78330	HBBA81	490	EST00526	77920	HBBA74	557	EST00580	78382	HBBA66
425	EST00471	78331	HBBA82	491	EST00527	77921	HBBA75	558	EST00581	78383	HBBA67
426	EST01449	78332	HBBA83	492	EST00528	77922	HBBA76	559	EST00582	78384	HBBA68
427	EST00472	78333	HBBA84	493	EST00529	77923	HBBA77	560	EST00583	78385	HBBA69
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429	EST00474	78335	HBBA86	495	EST00531	77925	HBBA79	562	EST00585	78387	HBBA71
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431	EST00476	78337	HBBA88	497	EST00533	77927	HBBA81	564	EST00587	78389	HBBA73
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435	EST00480	78341	HBBA92	501	EST00537	77931	HBBA85	568	EST00591	78393	HBBA77
436	EST00481	78342	HBBA93	502	EST00538	77932	HBBA86	569	EST00592	78394	HBBA78
437	EST00482	78343	HBBA94	503	EST00539	77933	HBBA87	570	EST00593	78395	HBBA79
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447	EST00492	78353	HBBA04	513	EST00549	77943	HBBA97	580	EST00603	78405	HBBA89
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566	EST00576	W78428	HFBCB94	632	EST00626	W78478	HFBCB85	698	EST00682	W78334	HFBCD90	734	EST00683	W78335	HFBCD91
567	EST00577	W78429	HFBCB95	633	EST00627	W78479	HFBCB85	699	EST00684	W78336	HFBCD92	735	EST00685	W78337	HFBCD93
568	EST00578	W78430	HFBCB96	634	EST00628	W78480	HFBCB85	700	EST00686	W78338	HFBCD94	736	EST00687	W78339	HFBCD95
569	EST00579	W78431	HFBCB97	635	EST00629	W78481	HFBCB85	701	EST00688	W78340	HFBCD96	737	EST00689	W78341	HFBCD97
570	EST00580	W78432	HFBCB98	636	EST00630	W78482	HFBCB85	702	EST00690	W78342	HFBCD98	738	EST00691	W78343	HFBCD99
571	EST00581	W78433	HFBCB99	637	EST00631	W78483	HFBCB85	703	EST00692	W78344	HFBCD00	739	EST00693	W78345	HFBCD01
572	EST00582	W78434	HFBCB00	638	EST00632	W78484	HFBCB85	704	EST00694	W78346	HFBCD02	740	EST00695	W78347	HFBCD03
573	EST00583	W78435	HFBCB01	639	EST00633	W78485	HFBCB85	705	EST00696	W78348	HFBCD04	741	EST00697	W78349	HFBCD05
574	EST00584	W78436	HFBCB02	640	EST00634	W78486	HFBCB85	706	EST00698	W78350	HFBCD06	742	EST00699	W78351	HFBCD07
575	EST00585	W78437	HFBCB03	641	EST00635	W78487	HFBCB85	707	EST00700	W78352	HFBCD08	743	EST00701	W78353	HFBCD09
576	EST00586	W78438	HFBCB04	642	EST00636	W78488	HFBCB85	708	EST00702	W78354	HFBCD09	744	EST00703	W78355	HFBCD10
577	EST00587	W78439	HFBCB05	643	EST00637	W78489	HFBCB85	709	EST00704	W78356	HFBCD10	745	EST00705	W78357	HFBCD11
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579	EST00589	W78441	HFBCB07	645	EST00639	W78491	HFBCB85	711	EST00708	W78360	HFBCD12	747	EST00709	W78361	HFBCD13
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581	EST00591	W78443	HFBCB09	647	EST00641	W78493	HFBCB85	713	EST00712	W78364	HFBCD14	749	EST00713	W78365	HFBCD15
582	EST00592	W78444	HFBCB10	648	EST00642	W78494	HFBCB85	714	EST00714	W78366	HFBCD15	750	EST00715	W78367	HFBCD16
583	EST00593	W78445	HFBCB11	649	EST00643	W78495	HFBCB85	715	EST00716	W78368	HFBCD16	751	EST00717	W78369	HFBCD17
584	EST00594	W78446	HFBCB12	650	EST00644	W78496	HFBCB85	716	EST00718	W78370	HFBCD17	752	EST00719	W78371	HFBCD18
585	EST00595	W78447	HFBCB13	651	EST00645	W78497	HFBCB85	717	EST00720	W78372	HFBCD18	753	EST00721	W78373	HFBCD19
586	EST00596	W78448	HFBCB14	652	EST00646	W78498	HFBCB85	718	EST00722	W78374	HFBCD19	754	EST00723	W78375	HFBCD20
587	EST00597	W78449	HFBCB15	653	EST00647	W78499	HFBCB85	719	EST00724	W78376	HFBCD20	755	EST00725	W78377	HFBCD21
588	EST00598	W78450	HFBCB16	654	EST00648	W78500	HFBCB85	720	EST00726	W78378	HFBCD21	756	EST00727	W78379	HFBCD22
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590	EST00600	W78452	HFBCB18	656	EST00650	W78502	HFBCB85	722	EST00730	W78382	HFBCD23	758	EST00731	W78383	HFBCD24
591	EST00601	W78453	HFBCB19	657	EST00651	W78503	HFBCB85	723	EST00732	W78384	HFBCD24	759	EST00733	W78385	HFBCD25
592	EST00602	W78454	HFBCB20	658	EST00652	W78504	HFBCB85	724	EST00734	W78386	HFBCD25	760	EST00735	W78387	HFBCD26
593	EST00603	W78455	HFBCB21	659	EST00653	W78505	HFBCB85	725	EST00736	W78388	HFBCD26	761	EST00737	W78389	HFBCD27
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596	EST00606	W78458	HFBCB24	662	EST00656	W78508	HFBCB85	728	EST00742	W78394	HFBCD29	764	EST00743	W78395	HFBCD30
597	EST00607	W78459	HFBCB25	663	EST00657	W78509	HFBCB85	729	EST00744	W78396	HFBCD30	765	EST00745	W78397	HFBCD31
598	EST00608	W78460	HFBCB26	664	EST00658	W78510	HFBCB85	730	EST00746	W78398	HFBCD31	766	EST00747	W78399	HFBCD32
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601	EST00611	W78463	HFBCB29	667	EST00661	W78513	HFBCB85	733	EST00752	W78404	HFBCD34	769	EST00753	W78405	HFBCD35
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603	EST00613	W78465	HFBCB31	669	EST00663	W78515	HFBCB85	735	EST00756	W78408	HFBCD36	771	EST00757	W78409	HFBCD37
604	EST00614	W78466	HFBCB32	670	EST00664	W78516	HFBCB85	736	EST00758	W78410	HFBCD37	772	EST00759	W78411	HFBCD38
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609	EST00619	W78471	HFBCB37	675	EST00669	W78521	HFBCB85	741	EST00768	W78420	HFBCD42	777	EST00769	W78421	HFBCD43
610	EST00620	W78472	HFBCB38	676	EST00670	W78522	HFBCB85	742	EST00770	W78422	HFBCD43	778	EST00771	W78423	HFBCD44
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616	EST00626	W78478	HFBCB44	682	EST00676	W78528	HFBCB85	748	EST00782	W78434	HFBCD49	784	EST00783	W78435	HFBCD50
617	EST00627	W78479	HFBCB45	683	EST00677	W78529	HFBCB85	749	EST00784	W78436	HFBCD50	785	EST00785	W78437	HFBCD51
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621	EST00631	W78483	HFBCB49	687	EST00681	W78533	HFBCB85	753	EST00792	W78444	HFBCD54	789	EST00793	W78445	HFBCD55
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626	EST00636	W78488	HFBCB54	692	EST00686	W78538	HFBCB85	758	EST00802	W78454	HFBCD59	794	EST00803	W78455	HFBCD60
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SUBSTITUTE SHEET

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107	EST01962	M85446	HFBC26	1023	EST02037	M85521	HFBCJ55	1089	EST02107	M85592	HFBCK44	1145	EST02165	M85648	HFBC28
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SUBSTITUTE SHEET

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2287	EST01341	M79193	HICP089	2429	EST01828	M79243	HICP043	2439	EST01861	M79306	HRBA43
2288	EST01342	M79194	HICP090	2430	EST01829	M79244	HICP044	2440	EST01862	M79307	HRBA44
2289	EST01343	M79195	HICP091	2431	EST01830	M79245	HICP045	2441	EST01863	M79308	HRBA45
2290	EST01344	M79196	HICP092	2432	EST01831	M79246	HICP046	2442	EST01864	M79309	HRBA46
2291	EST01345	M79197	HICP093	2433	EST01832	M79247	HICP047	2443	EST01865	M79310	HRBA47
2292	EST01346	M79198	HICP094	2434	EST01833	M79248	HICP048	2444	EST01866	M79311	HRBA48
2293	EST01347	M79199	HICP095	2435	EST01834	M79249	HICP049	2445	EST01867	M79312	HRBA49
2294	EST01348	M79200	HICP096	2436	EST01835	M79250	HICP050	2446	EST01868	M79313	HRBA50
2295	EST01349	M79201	HICP097	2437	EST01836	M79251	HICP051	2447	EST01869	M79314	HRBA51
2296	EST01350	M79202	HICP098	2438	EST01837	M79252	HICP052	2448	EST01870	M79315	HRBA52
2297	EST01351	M79203	HICP099	2439	EST01838	M79253	HICP053	2449	EST01871	M79316	HRBA53
2298	EST01352	M79204	HICP100	2440	EST01839	M79254	HICP054	2450	EST01872	M79317	HRBA54
2299	EST01353	M79205	HICP101	2441	EST01840	M79255	HICP055	2451	EST01873	M79318	HRBA55
2300	EST01354	M79206	HICP102	2442	EST01841	M79256	HICP056	2452	EST01874	M79319	HRBA56
2301	EST01355	M79207	HICP103	2443	EST01842	M79257	HICP057	2453	EST01875	M79320	HRBA57
2302	EST01356	M79208	HICP104	2444	EST01843	M79258	HICP058	2454	EST01876	M79321	HRBA58
2303	EST01357	M79209	HICP105	2445	EST01844	M79259	HICP059	2455	EST01877	M79322	HRBA59
2304	EST01358	M79210	HICP106	2446	EST01845	M79260	HICP060	2456	EST01878	M79323	HRBA60
2305	EST01359	M79211	HICP107	2447	EST01846	M79261	HICP061	2457	EST01879	M79324	HRBA61
2306	EST01360	M79212	HICP108	2448	EST01847	M79262	HICP062	2458	EST01880	M79325	HRBA62
2307	EST01361	M79213	HICP109	2449	EST01848	M79263	HICP063	2459	EST01881	M79326	HRBA63
2308	EST01362	M79214	HICP110	2450	EST01849	M79264	HICP064	2460	EST01882	M79327	HRBA64
2309	EST01363	M79215	HICP111	2451	EST01850	M79265	HICP065	2461	EST01883	M79328	HRBA65
2310	EST01364	M79216	HICP112	2452	EST01851	M79266	HICP066	2462	EST01884	M79329	HRBA66
2311	EST01365	M79217	HICP113	2453	EST01852	M79267	HICP067	2463	EST01885	M79330	HRBA67
2312	EST01366	M79218	HICP114	2454	EST01853	M79268	HICP068	2464	EST01886	M79331	HRBA68
2313	EST01367	M79219	HICP115	2455	EST01854	M79269	HICP069	2465	EST01887	M79332	HRBA69
2314	EST01368	M79220	HICP116	2456	EST01855	M79270	HICP070	2466	EST01888	M79333	HRBA70
2315	EST01369	M79221	HICP117	2457	EST01856	M79271	HICP071	2467	EST01889	M79334	HRBA71
2316	EST01370	M79222	HICP118	2458	EST01857	M79272	HICP072	2468	EST01890	M79335	HRBA72
2317	EST01371	M79223	HICP119	2459	EST01858	M79273	HICP073	2469	EST01891	M79336	HRBA73
2318	EST01372	M79224	HICP120	2460	EST01859	M79274	HICP074	2470	EST01892	M79337	HRBA74
2319	EST01373	M79225	HICP121	2461	EST01860	M79275	HICP075	2471	EST01893	M79338	HRBA75
2320	EST01374	M79226	HICP122	2462	EST01861	M79276	HICP076	2472	EST01894	M79339	HRBA76
2321	EST01375	M79227	HICP123	2463	EST01862	M79277	HICP077	2473	EST01895	M79340	HRBA77
2322	EST01376	M79228	HICP124	2464	EST01863	M79278	HICP078	2474	EST01896	M79341	HRBA78
2323	EST01377	M79229	HICP125	2465	EST01864	M79279	HICP079	2475	EST01897	M79342	HRBA79
2324	EST01378	M79230	HICP126	2466	EST01865	M79280	HICP080	2476	EST01898	M79343	HRBA80
2325	EST01379	M79231	HICP127	2467	EST01866	M79281	HICP081	2477	EST01899	M79344	HRBA81
2326	EST01380	M79232	HICP128	2468	EST01867	M79282	HICP082	2478	EST01900	M79345	HRBA82
2327	EST01381	M79233	HICP129	2469	EST01868	M79283	HICP083	2479	EST01901	M79346	HRBA83
2328	EST01382	M79234	HICP130	2470	EST01869	M79284	HICP084	2480	EST01902	M79347	HRBA84
2329	EST01383	M79235	HICP131	2471	EST01870	M79285	HICP085	2481	EST01903	M79348	HRBA85
2330	EST01384	M79236	HICP132	2472	EST01871	M79286	HICP086	2482	EST01904	M79349	HRBA86
2331	EST01385	M79237	HICP133	2473	EST01872	M79287	HICP087	2483	EST01905	M79350	HRBA87
2332	EST01386	M79238	HICP134	2474	EST01873	M79288	HICP088	2484	EST01906	M79351	HRBA88
2333	EST01387	M79239	HICP135	2475	EST01874	M79289	HICP089	2485	EST01907	M79352	HRBA89
2334	EST01388	M79240	HICP136	2476	EST01875	M79290	HICP090	2486	EST01908	M79353	HRBA90
2335	EST01389	M79241	HICP137	2477	EST01876	M79291	HICP091	2487	EST01909	M79354	HRBA91
2336	EST01390	M79242	HICP138	2478	EST01877	M79292	HICP092	2488	EST01910	M79355	HRBA92
2337	EST01391	M79243	HICP139	2479	EST01878	M79293	HICP093	2489	EST01911	M79356	HRBA93
2338	EST01392	M79244	HICP140	2480	EST01879	M79294	HICP094	2490	EST01912	M79357	HRBA94
2339	EST01393	M79245	HICP141	2481	EST01880	M79295	HICP095	2491	EST01913	M79358	HRBA95
2340	EST01394	M79246	HICP142	2482	EST01881	M79296	HICP096	2492	EST01914	M79359	HRBA96
2341	EST01395	M79247	HICP143	2483	EST01882	M79297	HICP097	2493	EST01915	M79360	HRBA97
2342	EST01396	M79248	HICP144	2484	EST01883	M79298	HICP098	2494	EST01916	M79361	HRBA98
2343	EST01397	M79249	HICP145	2485	EST01884	M79299	HICP099	2495	EST01917	M79362	HRBA99
2344	EST01398	M79250	HICP146	2486	EST01885	M79300	HICP100	2496	EST01918	M79363	HRBA00
2345	EST01399	M79251	HICP147	2487	EST01886	M79301	HICP101	2497	EST01919	M79364	HRBA01
2346	EST01400	M79252	HICP148	2488	EST01887	M79302	HICP102	2498	EST01920	M79365	HRBA02
2347	EST01401	M79253	HICP149	2489	EST01888	M79303	HICP103	2499	EST01921	M79366	HRBA03
2348	EST01402	M79254	HICP150	2490	EST01889	M79304	HICP104	2500	EST01922		

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NOTE REGARDING SEQUENCE LISTINGS: The listings of SEQ ID NOS: 1-2421 are in numerical order. However, an occasional number (for example, SEQ ID NO: 44) is not found in this list. In all, 9 SEQ ID NOS are not used. Nevertheless, the convention "1-2421" is used, for example, to refer to all the SEQ ID NOS in the following list, while "1-315" is used, for example, to refer to all the listed sequences falling between SEQ ID NO 1 and SEQ ID NO 315.

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SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Venter, J. Craig
Adams, Mark D.
Moreno, Ruben F.
- (ii) TITLE OF INVENTION: Sequences Characteristic of Human Gene
Transcription Product
- (iii) NUMBER OF SEQUENCES: 2412 (1-2421, with 9 SEQ ID NOS unused.)
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Knobbe, Martens, Olson, and Bear
 - (B) STREET: 620 Newport Center Dr. Sixteenth Floor
 - (C) CITY: Newport Beach
 - (D) STATE: CA
 - (E) COUNTRY: USA
 - (F) ZIP: 92660
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: 07/837,195
 - (B) FILING DATE: 12-FEB-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/716,831
 - (B) FILING DATE: 20-JUN-1991
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Israelsen, Ned A.
 - (B) REGISTRATION NUMBER: 29,655
 - (C) REFERENCE/DOCKET NUMBER: NIH004.004CP1
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: 619-235-8550
 - (B) TELEFAX: 619-235-0176

SEQ ID NO:1: (Length of Sequence = 362 Nucleotides)

CTTCCCTTTT GTTCCCTCA GGTCCCTTT TAATTGCTT CCTCCATTTT CCTTAGCAGC ATCCTAGTTG ATGGTCTGGG
TTATCAGAGG AGCAAAAACA TTAAAGTGT AAATAATGCT CATTGTCTCC CTGGGATTTC TAAACAGAAA AAATGAAGAA

112

AGAGGCAGAG AAGAGCTTCA CAAGGTGTGT GCCAGCTCTG CATCATTTCC AGCTGCTCAA CCACCATTTT TCCCATTTTA
GGTCCCCAAA AGTAGGAGGT GGGGCCTCAC AGAGCTGCTG TGGGCTTTGG GTATCAAAAG CTGCAGCCAC CATATGGGGC
ACTCCTGGCT GGTGTACAGG GTGGGCATTG CCCAGGTCTT TT

SEQ ID NO:2: (Length of Sequence = 214 Nucleotides)

GTITTNCITTT TTCTTAGCT TCATTCTCT TAAAAACAA GGAACAAGAA AACATTGCAC CAGCGTTCTA AGCCTCAAAC
AAAANACAAA ACAAATCCCC CTGCGAAGAA CAATAAACTT TACATCTCTT TGGCAACAAT AACITAAAAT CACCCAACCT
CCATTGCTC CAACCACAGC AGTTAGTTAG TTACAAAAAT ATTCCNTGTG CTGC

SEQ ID NO:3: (Length of Sequence = 344 Nucleotides)

ATTAATAGGA AAGATGATTG TATAGATGGT GGGCTATTAA CTCAGATCAG GATGAGAATC GGGAGTGCCT TTACATGTGT
GGTACCCAAA TGGGTGGTGT GATATAAGAG TAACAAAAGG ACTGAAAGGG TTAAAAAGA AAGAAAAAA AAAAATCCC
TGTTTGGGAG GGTGTTAAGT ATCGAGTGT TTCCAAACC ATTCTCTCTC TGCTCACCTA CCCCTAGGTG ATTAAAGGAG
ATAACTTTTA AAAAAGAAAG AATTGGCTCA AAGGTACTGT AAATTCTAGG ATTATATACC TTTATATAGG TTCATTCCCT
GATCCCTGTA TTATCAAGGC ACAG

SEQ ID NO:4: (Length of Sequence = 352 Nucleotides)

GACCCGGTAA CCGAGGCGGC AAGGAGGCCA GGTAGTCCCG GCACCTCTCA CTCTGCAGAG ACCAGCGGCT TCGTGGGAGG
CCTGTGGGTC ACACGTAGGG GCTAGAGCCA GCCTGCATCC TGCCACCGG GCTCCACTTG GAGATCAGCA GGAGGGCCAG
TGTTGGGACCC CTGCTGCCAC CTCTCCTGGG CCTGKTCTT TTCTGGAAAT TAAGAAGGTG TGCTCCAGAG CCAAGAGGAG
CAATAAGAAA CCTCGTGTGC CAGCTTCTTA AGGGTKGCAG TGCAAGACCC CA

SEQ ID NO:5: (Length of Sequence = 562 Nucleotides)

ATACCCCTAC ATATATATTC ACAGAAAATC ATATTGCATA TACTCTTTCT CCACATCATA AAAATGGGTG TTGGGCTCTC
TAGGACACAA GGAAGCAGG CCAAATTTCT CATATTTTCA GGAATAAACT GAGTGCCCGG AAGGTGTAAT AGGAACCTTT
TACTAACCTC ATCTGACTTC ATCCTCACAC CAGCATTTTG TGTTGAAGGA AACTGGCCGA GAGTGGTTAA GAAATATATC
CAAAGACGTA TAGTTCCAAA TGGAACACGG ATCTTTTAT TAAATTTCCA ATCATCTTTC CATATATATCA GCCAATGATG
GAGCAGAAAG CTGGTCCAGG CAATCCCAGA ATAGATCTTT CTAGGCACCC GTTCAGTGTG AGGAGGGGGA AGTGGCCTTG
CCAAGGGGCC AGTGAGTCA ATTAGGGTTA ACGCTGCTTC TTAGCCTACC CCAGGGNCA CCGCACTTAG GTTGTTTTGT
GCCAGCTTT GGCAGGAAGC ATTCTCCTT TCAAAGATIN NAGCCTTGCG GTCATATATC GGGTGTATA GGGTTCTTTT
TT

SEQ ID NO:6: (Length of Sequence = 359 Nucleotides)

ACATGTTCTC CCTCTTCAA TTITAGCAGT AATGTGATCC TCAAAAATGC ATTAATACTA GTTGAAGTAA ATAAACGGAA
GAGCTCCAAA ATGCTGTCAT TAAATGCATT TTCCACACT AATGCCAATC ATCCAAAGCT ATTTTCAACA AGTCAGGTAT
TCAAAGCTAT TCACACCACT TGAAAGAGTA ATTACATTT ACTGAAGCAC TTATCTGTCC TACACTGATG GGAGTAAATG
CTTCTCATAG GTTATCTCAT GTACATTATG CCACTTINAC TTAAAATGAT CACAATTINAG TGCTATAGGT TTTTGGGTTA
ATGTTTTCCT NGGGGGAGTT GTTAAAAACA TGGCATTTC

SEQ ID NO:7: (Length of Sequence = 218 Nucleotides)

113

AACTTGCAAC ATAAATACTA GAAAAAGAGA AAATATCATC AAAATACAAA TAACTGTTAG AAATCATTCG TCAAAAGAAR
 AACCTGGCAA TGCATGATTA CGAAATGCAA AAGAMGATAC AGTTGCTCTC TGTATATGCG CTTTCCACAT CCACAGATTC
 AAACAACGTG GGATAAAAAA GGATTTTTC A TGCCATTAA ACAVCAATGC AACAGTAA

SEQ ID NO:8: (Length of Sequence = 345 Nucleotides)

CTACAATAGA AGGCAAACTA TGTCCCTCCT TTGCTCAGAA ACTTTTAATA TCTKCTATT TCCCCATGTA AAAGCCAATC
 CTCAACCACA GTGTAGAAGG GCTATCCATT TCTAGCTACA CATCTCCTCA GTCAGTCCC CCAGCCCAG TACTTGGGGA
 CTTTGCCCTT GCAGTCCCT GTGCCAGCAA ACTCTCTCTC CAGATGTCCA CATGACTCAC CCNCTCCTT CAGGGGTCTT
 CTCAAATGTC ACTTTACCAG AGGTGGCTTC CCTGACCATC CTGTATAAAT AGCATCACCC TACCTCCTAT CTCTCTCTCT
 AATGTCTCAG GAATTGATA TCAAG

SEQ ID NO:9: (Length of Sequence = 189 Nucleotides)

GTGAACAGAC TAAGGCCTTT NIGGAGGCC AGAATAAGAT TACTGTGCCA TTTCTTGAGC AGTGTCCCAT CAGAGGTTTA
 TACAAAGAGA GAATGACTGA ACTATATGAT TATCCANGT ATAGTGTCCA CTTCAAGAAA GGAGAACGGT GTTTTATTT
 TTACAATACA GGNTTTINAGA ACCACCGG

SEQ ID NO:10: (Length of Sequence = 267 Nucleotides)

CTCCCTTCGC CACCTGCTGG ACGCGAGGG CTACTACGAT GCCATGGTG TCCTGRTTTT TTATTCTCA GACAGGACTG
 CTCTGTATNT GTCTTTGGAT TCTACGTAGA TTTATATTIG TAAATATTA CATTGTTCAT GACCAGAAGA AATGTCATT
 TCGTAAAATT TAGATTCTGG NGTCTATATA TGNAAGNAAT ACTAACTACT AACTGTTATA ACAWCAAAT GTGGGNTGTA
 TATCTACARG CCNAGCCGA CTGTCA

SEQ ID NO:11: (Length of Sequence = 247 Nucleotides)

CTCATAAAGC CAGGTGATA AAATGGTAG TTTCAATGTA TCTACAAGRC TAAGKTCAA ATTCCATGCA TGTGCTGRTA
 AAAGACCCAT NATGGKCTM ACTGTACTTA CTCCCATTT ATTAGCATTC ATTCTGGTCA CCAGCTCTAG TTCTCTGCT
 TAGCGAATCT CGCTTGCTT CAAGATGTCA TTCAAATGTC ACATTTTGTG GGAAGCCTTG CCTTTTTTGA CACGGTCTCC
 CTGCCAC

SEQ ID NO:12: (Length of Sequence = 280 Nucleotides)

AAGGCGAGAG GCTTCTGGAG AAACCCACCC CACCAACGTC TTGATCTTGG ACTTTTAVCC TCCAGAGCTA TGAGAAAACA
 AVTTTCTGTV VATVGVGGCC ACTCAGCCTG TGGATACTGG CAGCCCTAGC AAATCATAAC ACACATACAT TTTAAACTCG
 GTTTAATCCT GTGCCATTG ACTTATGGTT CAGTTTTTAA ATAGTCTTAG TCTTATGVCC ACTGTAAAG TTCACCAGGA
 CATAGGSCAT TGGGAAAGG GGCCTGTAA TCTTGGATTA

SEQ ID NO:13: (Length of Sequence = 339 Nucleotides)

VCTVCTVCC AACTTCATTG AGATATGAC TCTGGTATG GGAACATTAA ATACATTCTC TCAGGGGAAG GAGCTGGAAC
 CATTTTIVIR ATTGATGACA AATCAGGGA CATTCATGCC ACCAAGACGT TGGATCGAGA AGAGAGAGCC CAGTACACGT
 TGATGGCTCA GGCGGTGGAC AGGGACACCA ATCGGCCACT GGAGCCACCG TCGGAATTCA TTKTCAAGGK CCAGGACATT
 AATGACAGTC CTCCGAGGT TTCCTGCAG AGACCTATCA TGCCAACTGT GCCSTGTARA GGTCCAATKT TGGGTGSTGT
 ACGGTAGTGG GGAGGCCTG

SEQ ID NO:14: (Length of Sequence = 342 Nucleotides)

114

GGGVGCAAAG TAGCAGATTC TAGTAAAGGA CCAGATGAGG CAAAAATTAA GGCACCTCTTG GAAAGAACAG GCTACACACT
 TGATGTGACC ACTGGACAGA GGAAGTATGG AGGACCACCT CCAGATTCCTG TTTATYCAGG TCAGCAGCCT TCTGTTGGCA
 CTGAGATATT TGTGGGAAAG ATCCCAAGAG ATCTATTTTG AGGATGAAC TGTTCATTA TTTGAGAAAG CTGGACCTA
 TATGGGATCC TCTGCTAAT GATGGATCCA CTCACCTGGT TCAATAGAGG TTAATGCGTT TGTACATTTT TGTACAAAA
 GGAGCARGCT CAAGGAGGGC TG

SEQ ID NO:15: (Length of Sequence = 354 Nucleotides)

ATGTTGATGC TGAAATTVAA GATCCACCAA TTCCAGAAAA ACCATGGAAG GTTCATGTGA AATGGATTTT GGACACTGAT
 ATTTTCAATG AATGGATGAA TGAGGAGGAT TATRAGGTGG ATGAAAATAG GAAGCCTGTR AGTTTYCGTC AGCGGATTTT
 AACCAAGAAT GAAGAGCCAG TCAGAAGTCC AGAAAGAAGA GATAGAAAAG CATCASCTAA TGCTCGAAAG AGGAAACATT
 CGCCTTCGCC TCCCCTCCG ACACCAACAG AWTACGGGA AGAAGAGTGG GAAGAAAGGC CAAGCTAGCC TTTTATGGGG
 AAGCCGCAAG AAGTCCAGAA AGAGGGWGG TTGA

SEQ ID NO:16: (Length of Sequence = 348 Nucleotides)

CAGGCAAGTT TCTTCCAGGA TGAGAAATCA GTGGAAAGTG AGGGCCAGCC AACAGCCACC ACCAACCACC CAACACGGGA
 GCGAGACCAT CTTAAAAGAG CCCCAGCCAA GCTGACCATG GGTCTGACCC CAACTGAAG AAATGCCAG CCCAGCCAAA
 CCCAATTGC TAACCTGTAT TATAAGCAAG TACAATGGT CTTACCTTAA GCCACTAAGT TTTGGGATGC TTTGTTACAC
 AGCTATAGAT AAGCTGATAC AGGGAATGTC AGAWTCCATG ATGAGAGACC GAGCCTTTCA KTCTGTCAGA GGYACCTTVG
 GTTGGCAAAA CTTCAAAAAG AGGGACCT

SEQ ID NO:17: (Length of Sequence = 415 Nucleotides)

AGCAYGGGCT GGGGGCCCG GAGTAGGGC TGGGGCTTGT TTTACGCTCT GCCCCCCACA CCCCCTCCTC TTCCGTCTG
 ATTAAGCCCA AGGGTTGGTG GACTTAACCT TCAGCCATC TCTAAGGGT TCACAGACTG GATCTTTCTA AACTTTATTG
 GGTACCTGCT TCCCCTTTTC CCTGGTAGT TTCATCTACA AAAAGTCAA ACCTGATCGA AATAGAAATA AGATCATCAA
 ATTGGACCAT TCTCTTAGCG TTCGAGTGT CCGGCCAGAC TGGCATTGAG TACACGCTGA GATCCAAACA CATCAGACTG
 GCCTCAGGTC ACCAACTCGC CACTCAGGGC ACAAGGCCTG CCCTGTGGT CACAAGGCTT TCCTTAATGT CGTCGGTGCC
 CAGGTGAACC ACAAG

SEQ ID NO:18: (Length of Sequence = 356 Nucleotides)

GTATGTATGT CTGTAGGTAT TTCTATACCT AACCATCTGT GTCCCAATTA AGCTAAACAT GATTCATTCT GATGCCAACC
 CCCATCCATC ATGCCATGGA TCGCTCTAGA CTTCTTCCCT TGTAACTCC CACTCAAACA GTGAGAAACC TTTGCCAGT
 ATGTTTGGGA GTAACTCAC TGGGAGTTG CAGTCCACT AGATGAATGC CAOCCATTT GTTCATTTAA AAGGACTTTT
 GGAACCATAG AGCAATGGCT GGGCTGGGT TVGCACGTT ATCTTGACTG AAACAATTGG CCATGAAGGC ACTTGCCAAG
 GAAACTCTAG GGGCCACAAG GGTCTGGGT GCTTGC

SEQ ID NO:19: (Length of Sequence = 339 Nucleotides)

CATGCTTCCA TTTTTTTGTG TTTTAAACCA CCAACCAAT ATTTTYCCTT TAAATTTTAA TCTTATAATA TAGAAATCTT
 ATGTAAATGA AATTTTGTCA TGTTCAAAT AAAGAGAACT GAAGTAGAAA ATAGAAATGC CAGTAAACAA CATAATGTTT
 AATTTACAAC TTACATTAGG GGTTTGGGG VATGCTAAT ATATATTGAG AATATACATT AGAACTCTTC AAAATGGGCT
 CTCTAATGA GTCACTACT GAACATAAT GTTCCCTCTT CTGTTAAATA GAATAGGTTT AAATGACTAG TCCAAATGGA
 ATTATTGCCT TCTKGTAA

SEQ ID NO:20: (Length of Sequence = 437 Nucleotides)

AGAACAAGGG AACTCAGCAG CCCCTCCCTT CCCATCAGCT GTTCCTGAGA GATGCAATAT AGTAGTCATC GACATCATCC
 TTATCAACAG CATCATCACT CAGACAGTGG TGAAAGTCTT TCTTCACAAG GAAAAACAAA GATAAAGAAA TACATGAGCA
 TTAATCAGAA ATTTTCAAAG CTGGGATTCT AATGATATGC ATTATCATTA GACATTCAAA TGCTATACAT CTCTGTATGA
 AGCCTCCTTG ACAGCAGCTA CACTTATTTT ACATTAGAAT GCCTAGAGAA ATCCTGACTG CCCAGCTTGG TCATGGGACC
 TTCCCCACTC TCCTCTTGGG GGAATGAAAA GATGTGGCGG CTTTCTACTT TTGCTACTGA GCTGGGGTAT ATGGCTAGGT
 CCACTTTCTA AGGGGCTTGG AAGGGTTATT CCATCTG

SEQ ID NO:21: (Length of Sequence = 385 Nucleotides)

GTTTGATTIG CTTTTTTTTT AGAGTTTAC ATCAGTGTTT TTCAGGAATA TGGTCTTTC ATTTTCTTTT CTGGGAATAT
 TTTCTAGTTT TACTTTGTCA GAGTAAATTC TGGCTTCACA GAATTATTTG TAGTCTCTCC TGTCTTGGTT TATTTCATGCT
 GCTATAACAA AATACCACAG ACAAGTGGT AATAAATAAC ACAAATTTAT TTTTCCCAGT TCTGGAGGCT AGGAGTTCAA
 GAAGCTGGCA AGTTCAATGT CTGGTGAGAC CCAATCCTTC ATAGGTGGCA CCATCTAGGG GTCCTTACAT GRCAAAGAGA
 TGGAAGGGCC AAAAGATGG TGACCTATTG TGAGGCTTTT TTTAAAGGGC CTTVAAATCC CAGTC

SEQ ID NO:22: (Length of Sequence = 374 Nucleotides)

ACCTTCATGG TCATGAAGGC CATGCAGTCT CTCAAGTCCC GAGGCTACGT GAAGGAACAG TTTGCCTGGA GACATTTCTA
 CTGGTACCTT ACCAATGAGG GTATCCAGTA TCTCOGTGAT TACCTTCATC TGCCCCCGGA GATTGTGCTT GCCACCTTAC
 GCCGTAGCCG TCCAGAGACT GGCAGGCCTC GGCTTAAAGG TCTGGGAGGG TGAGCGACCT GCGAGACTCA CAAGAGGGGA
 AGCTGACAAG AGATACCTAC AAGACGGGAG TRCCTGTGCC ACCTGGTGCC GACAAGAAAG CCGAGGCTTG GGTCTGGGTC
 AGCAACCGAA TTCCAGTTTA GAGGCGGATT TVGGTGTGKG ACGGTGTCAG CCAC

SEQ ID NO:23: (Length of Sequence = 322 Nucleotides)

CAAAACGTGA TCACCACAGC TCCGTTCTTG CAGTGACACT TAACATACTC AGCATCTTCA TGAATTCTGA ATAATTTACT
 GATCGTAAAG TCTAAAAGTA TCAATTTTCA GTGAGCAGTT TTAATCAGA AAATAGTCAA TAGTTAATCA TGACTCTTCA
 GGGTATTTCC TTCACGTCCT CTGAAGAGTT TCCCAGAAC TTTCTGTGAA AAGGAATGCC TCCCAACAAT GGAGAGCAAC
 AATAGCAACA GGCATCTGAA TCAGCCTGGC CTCTGAAAAC AGACCANAGA GGAGTTTATC TGTCTCTTCC AGTGGAGGAA
 GG

SEQ ID NO:24: (Length of Sequence = 113 Nucleotides)

CCTGAAATCG GAGTCTTTTG GACTGACTCC AAATTCAATG GGTGGCACAG GCAGCACGGA GTCCACGTGA ATCTCCACCC
 CGTTAACAGG CGGGACGACA GCCCCTTGCA GCC

SEQ ID NO:25: (Length of Sequence = 399 Nucleotides)

GGAAAGAATG AAGGAAAAC AAGACAAAT CTACTTCATG GCTGGGTCCA GCAGAAAAGA GCAGACGCTG GCCTCAGACA
 CAGACAGCAG TCTTGATGCC TCGACGGGAC CCCTGAAGG CTGTGATGA TAGGTTAGAA ATAGCAAACC TGTCAGCATT
 GAAGGAATC TCACCTCCGT GGGCCTGAAA TGCTTGGGAG TTGATGGAAC CAAATAGAAA AACTCCATGT TCTGCATGTA
 AGAAACACAA TGCTTGCCC TACTCAGACC TGATAGGATT GCCTGCTTAG ATGATAAAT GAGGCAGAA ATGTCTTGAA
 GAAAAAANTT GCAAGCCACA CTTCTINGAGA TTTTGTTCAA GATCCATTTT AGGGTGAGCA GTTAGAGTAG GTTGAATTT

SEQ ID NO:26: (Length of Sequence = 355 Nucleotides)

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GATTGGTATA CGGGCAACAA TGGATTGATA GCCTTAATAT AGAAATAGTT CCAGCAGGCC AGATGCAGTG GCTCAATTCT
 GTAAACCCAG TGCTCTGCAC AGCTAGGAAG GAAGATCACT TGGGCCCAGG AGTTCAAGGC TCCAGTGAGC CATGATCAGG
 CCACTKCTC CAGCCTGGGT GACAGAGTNA GGCCCTGTCT CTAATAAATG AAATAGCTCC ATCAAGTCAA TAATTTAAAG
 TTCAACAGCC CAACAGANCA AAAATTGTAA ATGANCACAA ATTAGAAAAT GTACAAATTA AATATTAATG ACCCATAACC
 CTATAAGGA AAGTTTAACC TCTCTAGTAT TTTT

SEQ ID NO:27: (Length of Sequence = 322 Nucleotides)

AAAACGTGAT CACCACAGCT CCGTTCCTGC AGTGACACTT AACATACTCA GCATCTTCAT GAATTCGTAA TAATTTACTG
 ATCGTAAAGT CTAAAGTAT CAATTTCAAG TGAGCAGTTT TAAATCAGAA AATAGTCAAT AGTTAATCAT GACTCTTCAG
 GGTATTTCTT TCACGTCTC TGAAGAGTTT CCCAGAACAT TCTTGTGAAA AGGAATGCCT CCCAACAATG GAGGAGCAAC
 AATAGCAACA GGCATCTGAA TCAGCCTGGG CTCTGAAAAC AGACCAAAGA GNGTTTTTC TGCTTTCTTC CAGTGAGGAA
 GG

SEQ ID NO:28: (Length of Sequence = 287 Nucleotides)

TATTTTTATT AAAGGACCAC CCTGGCTGIM GTGAGATGAA TGGATTCAA CAGGGCAAGA GTGGATACAG MGAGATAAGT
 TAGGAAGCTG GTATAGAAAT CTGGATGAGA TATGGTGGCT TGGATGATAC TAGCAGTGAG TATGGGAAGT AGGTGGATTA
 CTTTACACTT TTTTAGATCA GTCKATTCTT GATGTCTTGA AGACAAATTA ATCTCATATA TAACTCTAAA CAACATATTT
 ATATTTTCATG TAAATAAGGA TAATGCTGAC CAAATATTAG CACCTTT

SEQ ID NO:29: (Length of Sequence = 282 Nucleotides)

CAGGGCAGGG AAGCCTGGAA GCAAAGGAGG ACCTGGCTCC TGACTCTCAG AGAGGATAGG CTGGGATCCC TGGGGCAGGC
 CTGTTCCTTG GCTGGCCAAT TTAGTCTTTC AATTGTCTAA GGGCTCTCCA TTGCCTGCCC TTGCCTCTTT CTAGCCTGTT
 ATTTCTAGGC TCCTCTGAAT AAATCTCAGG TTTCCTACTG TCATGCCCTT AGTTCAAAA TGAGAATCTG CCTACAGTG
 CTGGCCTCCT TCCGGCCTGA AAGCCAGCAC CTTKCGACCC GG

SEQ ID NO:30: (Length of Sequence = 345 Nucleotides)

GAAGCTGGTG AATACATTC AAGACACAAC ATGGCACCTG TGCTAGCTC TATGGTACAA CATGGTACTA TGACACATAT
 AATGGGTGTC CAGATGGGGA AGGCAGCTTC TCTGCAACTG AGCTGAGATC TCAAAATAGA CAATGTCAAG ATGGAATGAG
 AAGGGAAAAA CAGCATGTGT AGACAGGTAG TGACAAAAGG CTAATTAAGG ACTGAAAGAA ACCAGTGGCC AACAAAGGAA
 TCTACGGGTG ATAAAGATAA GACGGTGAGA GAGATAAGGC TAGATTGTAT AAGGCTTGAC AGACCATAGC AAGATAAGCA
 AGGACCTGTG TCCTGTTAAC CATTT

SEQ ID NO:31: (Length of Sequence = 343 Nucleotides)

ATAAAATGG TCTGGGTACC CTAAGGTGTT TGCKTTGATA GAAATTGAC ACCCCAACT AAGTGTCTA CTTAGCTTCT
 ACAATAGTTA TTCCTAGACC TTAGATTAGT CATTACATTT TTATTTAAGG TACTATGTTA CTTTCATGAC TACAAAATGA
 GGCACCTGTA CAAAACAGGA ATGAAAACAT ACATATACTG TCTTGTCTTT ATGTCGTATT AATGCCAAG ATATTGTCAG
 GGATTATTTT AAAGAAGCCC TTAGTCATGA TGGCTATTTT TAAAAATGCC ACAGGACAGT AACAGGCTGA AAAGAAACAC
 CTGGTTTGAG GGGCCAAATT AAG

SEQ ID NO:32: (Length of Sequence = 153 Nucleotides)

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ACAGGATGGT CAGGACAAGC CACCTCTGGT AAAGTGACAT TTGAGANGAC COCTGAAGGN GGGGGTTGA GTCATGTGGA
CATCTTGAGG AAGAGTTTAC TGGCACAGG AACTGCAAGG KCAAAGTCCC CAAGTACTAG GGCTGGGGC AGT

SEQ ID NO:33: (Length of Sequence = 257 Nucleotides)

TCAGTCAGCT TATCGCAGGT GCAGCCAAAC ACAAGCTTC AGGACAAATT GTACAACTT TACAATGTGG GATTTAAATT
TAAATATGA TACATAAAAA TCTACACAAA ACTGATAAAA ATCAAGCACA GNTACCAGGA TIGAACTTA TAATAATCCA
TGIGTGAAAG GGAGTCTGT TTCCTTTCAA GIGCTTTTAT TCTGCTATGG AACAGTCAA ATGGAAGNTG TAAAGCTTTG
TGGTTAGTTT AAATTAT

SEQ ID NO:34: (Length of Sequence = 307 Nucleotides)

CTCCACCCA TATCTAATCC AACAAGTCCA GCTGCCTCTC TCINAAMAAT ACCNARGATC AGGCCCTTC TCAGCACCCC
CACAGCTGCT GCCCCAAGG AAGCCACGTC ATCTCTCAG GAGATTGTC AGCAGCCACT GCCTCCTTGT CACCTTCGCC
TGIGTGCAAT CTCCCCACAT GGCCAGGAA TCGTCCCTGT TAAAGTCTGC TAGGTCACGG TCCTTCCTAC TCAAAATGCT
CCCYTGGCTC CCACTGCCCC CAGAGTAAAA AGCCAGACC TTCAAATGAC ACAAAGGCCT ACAACGA

SEQ ID NO:35: (Length of Sequence = 266 Nucleotides)

TCCACAGGTC ATCAGATGCC TGCTNGATAA TATATAAACA GTAAAAACAA CTTTCACTTC TTCCTATNT AATCGTGTGC
CATGGATCTG ATCTGTACCA TGACCTACA TAAGGCTGGA TGGACCTCAG GCTGAGGGCC CAATGTATGT KGGCTGTGG
GIGTGGTGG GAGTGTGTCT GCKGAGTAAG AACACGNTT TCAAGATTCT AAAGCTCAAT TMAAGTGGA CATTAATRAT
AAACTCAGAT CTGNTCAAAA GTCCG

SEQ ID NO:36: (Length of Sequence = 388 Nucleotides)

CAGCTTTGGA AAGACTTTGA CCTCTGAACA AAAAGCCAGA AGGCTGCTTA AAGAAATAGT AAGGGTTTCA CTGCCCCTGG
ATAGTCACAA ATCTAGGAGT ACTGGTTCAC TGCCTTGGGT TACCAGGTAT CAGCTCTTC ACAATCTCTC CTCTTCCCAT
GCTTCCCTT AAAGTCCAGT TGACAAATGA AAAAGAAAAA AAGGCCTTGA TTTATAGTAT TGCCAAACAA CCTCATAAGA
ATGGGTAAAA TTACATACAC ACATACATAG AGAAGGGAGG TAATGCTGTG AATCTACTTG AGCTGGATTG CATGCTCCCT
AGGGACCAGG GTGCCCAACC TGTAAATTTA TTTCTAATT TTATAAATAT ACTCCTTTT CACGGATG

SEQ ID NO:37: (Length of Sequence = 342 Nucleotides)

GAATGCTAC ACAAGGAAGT ACAGGATTG GCTTTTCTAG ATGTCATATC CAACTTGC AGTCATGAGA ACAAAGTGT
TGCCAGCAG GCCTCTCTCA CAGAGCAGAG ACTTACTGTG GAAAGCTGAG AACTGCCGA TACAGGCAT CATCCCATCT
CTAATTTCCC CTCGTCTC CATCCAGCG CTTCTTCCG TTTATTCTCT ACCATACCAC TTGTGCATGC ATGTRATGTT
CTAATACCA TTGAAGAACC GCTGTAGGTA CCTCCCTAAT AAGGATTCT AAACCTATAG TTAGTGTGAT CATGACTTTG
GTCAAAGGA AGTYTCCAC CC

SEQ ID NO:38: (Length of Sequence = 355 Nucleotides)

GATGACTTGG AGAATGCCGA AGAGGAAGGC CAGGAGAATG TCGAGATCCT CCCCTCTGGG GAGGACCGC AGCCAACCAG
AAGCGAATCA CCACACCATA CATGACCAAG TACGAGCGAG CCGCGTGCT GGGCACCGA GCGCTCCAGA TTGCGATGTG
TGCCCTGTG ATGGTGGAGC TGGAGGGGA GACAGATCCT CTGCTCATG CCAATGAAGGA ACTCAAGGCC CGAAAGATCC
CCATCATCAT TCGCGTTTAC CTGCCAGATG GGAGCTATGA AGACTGGGG GGTGACGAG CTCATCATCA CCGACTTGAG
CTGGAGTCAT CTTTCTGMC CTTTCCCCA TGCCC

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SEQ ID NO:39: (Length of Sequence = 303 Nucleotides)

GCCAAAAACA NYTCTGAACC CGTTTGGGA AATAATGGGA TTCCTGATC ACGGGACAAC GAATCACCCCT GAAGTTTTTC
 TCCAGTTTAC TCACTCACAT AAGCCACCAG AGGCTAACCA CACTGACAAC AAAAGCAAGT CCCAGGATTC CGGGGGCTAA
 TACCATGCTA GGCATTACTT GGGAGTTAT GAGTTGGTAT ACATCTGTGA ATTTGGTGGG AGGAGAAAAC TAACAGTAA
 TTTATCAAAG CCAGTGGTAC GTTCAGCGTT ATAAAAATTA CAAGGATCTG CTTCTCGGCG ACT

SEQ ID NO:40: (Length of Sequence = 178 Nucleotides)

GGTGTGGGG GCTAGAGATA CACATGCCAG TACTATACAT TTCTCAGCAC TGTGCTGTG ATTACAGCA GTTCAATTGT
 TCATGCGATA TAAGCCAGTC ATGTGGCCCA AGTTATTCTG TCGGCTGTGT TCTCTGAGG AATCTGATGC AAGAAGGCCT
 GAAGGATGCA TGGCTTTT

SEQ ID NO:41: (Length of Sequence = 322 Nucleotides)

TGCTTTTCTT TAGAAATTTA GGGCAGTGTG ATGCTTCCAG AGGTCTGTAC AAACACCAGC TTTCATTGTG CTGCGGAGTT
 TCCATGCCCTC TYCCTTCTCT TCGCTTAGTG CACGTTTCTG CTTTTTATCA GTTGTACTGC CTGAGACTGA KTCCAACAAC
 CCAAACGTAA CGCTCAGCTC CTCCTTTTCA AAGGAGGATG ACTTNTCTNA ACAACTATTT AGGTGAATTA TTKCKACAGT
 TTATTAAAGC AATGGCTCTA AACAAATTC ACTGGGGGTG ACAAAGTACA ATACAAAAGG CGTACTCTGA GGGCTTGGGG
 GT

SEQ ID NO:42: (Length of Sequence = 278 Nucleotides)

AAACTTTGGC ATTTTATTC AGACACGTAT AAAAACAAAA CAAAAACTT CAGTGATACA ACAGACGTTT TCCCTTAGTT
 CCCCATCCAA GGGACAGAG GTGTGCAGCT GAAGCTGGAY CTTTTTCTG TCCTACCTGG AAGCTGTCTC ACTGCTGGAT
 GAGAATGGCT TCTAAAAGTG GATCTTGGGG ATCCTTGTGA ATTTGCCCTC GGATAAGGAG TGAAGWTCAT TTACGGCACA
 TGTGGATTAT GGTTCACACA AAGATGTCCA GTTATTTT

SEQ ID NO:43: (Length of Sequence = 225 Nucleotides)

AGATCAAAAG ATGAGAGAAG CTGAAACAGA ACGCATGAG GGAAAGAGGA AAGTGGAAATC TCTGTGGCCC ATCTTCAGGA
 TCCACCACCA GAAAACCGT TACATCTTG CCTCTTTTAC AAGCGGAAAG CCAGCAGCAG GATCTCTAGG AATATTAGTA
 TTAAAGAAGG CTATGCAGCA TAAACCTGAT TTCAAATGG TAAAGCAAG GTTATGTGTA CTGT

SEQ ID NO:45: (Length of Sequence = 305 Nucleotides)

GGATTGCCAG GAGCTGTTCC AGGTTGGGA GAGGCAGAGT GGACTATTTG AAATCCAGCC TCAGGGGTCT CGGCCATTTT
 TGGTGAACCTG CAAGATGACC TCAGATGGAG GCTGGACAGT AATTCAGAGG CGCCACGATG GCTCAGTGA CTTCAACCGG
 CCCTKGGTAG CTTACAAGGC GGTGGTTTGG GGGATCCCC ACGGCGAGTT CTGGCTTGGG TCTTGGAGAA AGGKGCATAG
 CATCACGGGG GGACCGGAAC AGCCGCTGG CCGTGCAAMC TCGGGGGACT GGGATGGGCA AACGC

SEQ ID NO:46: (Length of Sequence = 264 Nucleotides)

ATGAAATAGC ATATCTNNGC CTAATTAAAA GATTCCATTA CATTTACTTT TATCATTTAT ACTGCCAAGG ATCAGTCACA
 AAAAAITCAA ATTATACATA TTATTCATGC TTTAATTCA TAAATAAGTA AATTAAAGCA AGCCAATATG TCTCTCTTCA
 TAACATAGGG AAAAATTACT GTTAGCATA ACAGNGTAAT AGGCAAAGTC TAGCCATACA GCAGCAGTTC ACGGTGTTGT
 CAAGTTGGKA CAGGTTCCAT CGAT

SEQ ID NO:47: (Length of Sequence = 175 Nucleotides)

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GATCTCTTCC AGCGTCAATG TACTGGGACA GCAAACACTC ACATTTGAAG TTCTTCTGG CCACCGGCTT CCCAGTACAT
TGACGCTGGA AGAGATCATC TCAAATGGTT CTCCAGTGTG AGGCTGGAGA TCTCCAGAAA TGGAGTCTAC TCTGGGGTG
GCTTGATGG GAGCC

SEQ ID NO:48: (Length of Sequence = 270 Nucleotides)

GTCTGTGAGA GGNACCGGGC AGCTCAMRCC CACAGCGGCT CCTCATCTC TGTGGTGGCA TCTCAITCC ACTCTCATCT
GCCACCTKCT CAGGCGGGCC TCTAGCTTTC TCATGTACTC TAGCAATTC TGTTCCTCT GCTGTAACCTG CTCTTTTCC
TTCTGGAGCA CACGAGGSC TGACCGCAGC TGTGTGAGCT TCCGCTTACT TTMIGACAAC TGTACCAGGC TAGAATCCTT
TCTGCTGGG TCAGCTTCAG TCTTTGAACA

SEQ ID NO:49: (Length of Sequence = 359 Nucleotides)

CCCTGAAGAG TGGGTGGGAC AACCAGATGG GTGTAAACCC TTGTGGGGGA AAAGGAGTGA GTTTACTTGG TAAAATAATA
ATGGTAATGT CAGCAGCGTG GCTGGGGGAC TCAGTATGGT CCGGGGAAAA GAGTTGGGGC AGTGAACCTC CCAGGCCGAC
TGGCCTTGGG CTGGCAGCAG GGAGGCTGCA GGGCGCCTAC CTMCTCTGCC AGTCCCTGC CTAGGAAACC TATCCCAGGA
CACCCCTGCTT TGGCCTGGAT AGCAGCCTAG GGATGAGCAT TTCTTTGAAA GCAATTAGGT TATTACCTG GTATTAAAC
TATTTACTGT TAAAAAATCT GTGACTTCAT GGAGTGGG

SEQ ID NO:50: (Length of Sequence = 271 Nucleotides)

CCAGGAAGGA CAGGAAGTGT CCTCTAATAC GCATAAGATC CAGTACAGGA GAGATGGGAA GMGAGKCTCC AGGATGAAGG
GGAAARAGG CCGCATGCCA GTCACCTGGC ATCINCCAGA GAGGGYCAGY CTNCCACTG AGACTGGGGC ACGAGTCCCG
TCATCACCAT GCCCTCTGAC TGTGAACTG TCTTTTACC TGACAAATAC TACACAGGTA TCGMTCTGG CCATACTCTG
CTATCTAAAC CCAGGAAGT ATTAGATTGT T

SEQ ID NO:51: (Length of Sequence = 226 Nucleotides)

CTCCAAGCAG TAAAGACTTG CAAAGCATTG CATTTTGATT AAACCTTGCT GGGCTGAAGG GCAGGCAGAG CTGTGGTGA
CACTGGCAGG ACGCAGCACC CCGGACTGG CCTTGGCAG GCTGCACCGG GCGCATGCGG GTGTGGGCCA GGGTTCCTTT
AGGAAGCAGG TGGGAGTCTK NCACGTGCAG KGGTCCAGG ASKGYACCAK GCCTGGCAGG GCACTG

SEQ ID NO:52: (Length of Sequence = 408 Nucleotides)

GGTGGGGCAA GGTGGGGGTG AAGTGCATC CTGCTGCATG AGTGGCAGGG CAGGGTGCAC ACACACAGT GGTMTCTGGC
TGGGTGAGGC AAGCAAAACC TGCTGCACA TGGCAAAGG ATGTGGGAAG TATCCATGGG CNCCAGGGGA AGCTGCAGTT
TGGGGAGGGA ATGGGTGGCA CTGCTGCGTG TCTGTGGGG CCACCCACT GGGGTCTCC AAGTGGTCAA GTTCCGTCTG
CCAGGTAGA AGCTATGATG GGGGCTCTA GGACACTNGA GGCTGACCTG AAAGCAAGGT ACTTTTACA CTGGGACCT
GCAAGAGGCC AACAAGATTA AGGGATGCTT CAGGTGAGAC TTGGCCCTCT TCTTATGGG CAAGACCTTC CCGCAGAGT
TCAGATCT

SEQ ID NO:53: (Length of Sequence = 314 Nucleotides)

TTCTGTGAG GAGGACCACA TGGCAGTCCA GCAGACTGCA CATTTTAA AACTAGGTCT TCCCAGGTAG TTTGAGGAGC
ACCAGGGCAC ACTCAGGGAA GGGACATGTC AGTGTCTGAG AGCTCAGGG AGGAAGGTGT AGTGACAACA TGGACCATGG
TGGAGTGA CTAGACGGCT CTGGGTNAG GAGAATCATC ATGTAACAAA GCATTAAATC ATTTGGAGAA ATTCAGAAAA
NTCTGATAGT TACATCTAG CCCACTTACC AGGCCTACTA AACGTCAATC AGATATATTT CAATTTGAAT TCGG

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SEQ ID NO:54: (Length of Sequence = 310 Nucleotides)

AAGCCACCGC ACCTGGCCCA TTACATTTAT AATGTTATAA GGGGGTTGAG GGGTGTGCA CTGGAGCAGT GGTTCCTCAA
 CTCGTGTATG CATAGGAATT ACCTGAAGGG CTGTGTTAAA CACAACTGC AGGGCCCAACC CCCAGAGTTT CTGGTTGGGG
 AGGTGTGGGC TGGGCTTGAG GATGTGAATC TCTACAAGC TCCCAGGTGA GGCTGCTGGT CTGTGGACCC ACTTCAAAGA
 CCCAGTGAAT CAGAAGAGTC AGTGAGACTG GACAAATGAA CGCAAGACAG TCTTCAAAGG AGACCAGAGG

SEQ ID NO:55: (Length of Sequence = 252 Nucleotides)

TTTTTTTTT TYCCGGGGAR GTCAAACATA CTTTTTCAAC ATAGGATKTC TGACAGGAGG CCCTTGGMCA GGGTTCCTG
 ACCTCTGYTT CAAACCCAC TGGAAACAGA GCAAAGTCAT CAMGAAAACC CAGGACACCA GGGCAGGGGG GCTGCACAAG
 GTCGGGTAGG TCACAGTGGG CCAGCACACA GTGGCCCCGC CCAGGTCCAG CCCAGCCTGG GGGAGGGTGT GAGGGTTCCA
 KGCAAGCTCA TT

SEQ ID NO:56: (Length of Sequence = 188 Nucleotides)

GTCAAGTCTA CCATCATTCT AGAAGGAAAA GGCATGGTGG GAATTCAGCA CCTGAACCTG TATTTACACC AGCCTCGGCA
 TCTGGCAAGG RAATAGCGAT TGTTCATAGT GATGCAGAGA GAGAACAGGA GGAKGAAGAA CAAATACACA CAAACAACCTG
 ATCTAGGGAG ACTCCAARGA TCCAACAG

SEQ ID NO:57: (Length of Sequence = 304 Nucleotides)

AATCAGCCTG CAAGCAAAAG ATAGGAATAT TCACCTACAG TGGGCACCTC CTTGAAGAAG CTGATAGCTT TTACACAGTA
 TTAGATTGAA ATAATGGACA GAAACACATT CTGTCAAGA AAGGGGGAGA GAAGTCTGTT TGCAAGTTTC AAAGCAAAAA
 GCAAAAGTGA AATGATTGA GGATTTCTGT TCTAATGGA GATGATTCTC TGGTTGTTAG AAATGGCAAA TATTGATGAT
 TGTGTGCTAT TGATTGGTGC AGGATACTTG GTATACGAGT AAATACTTGA GACTCGTCTC ACTT

SEQ ID NO:58: (Length of Sequence = 261 Nucleotides)

CCAGAAGCTT CTGCTCTCTC AGTGGTTCCC TTCCCTGAAG TGCCCTCCCTT CTCATTAATT ATAGCCTGTG
 TCTGAACATT GTGAGCTATA AGAACCTCA TATTAATGGT TAAGGGACTG TTGGAATGA TGTGATTTTA TTAATAATGG
 GGTCTTTGTG GAGGAGTCAG GAATGGTCAA AATGAGCTTC AGGTATGGGG CTGCTCTCTT GCTCCTGATA CCAAGGGTCT
 GGCAAGCACA AAGGAAGGTG G

SEQ ID NO:59: (Length of Sequence = 470 Nucleotides)

AATACGTATT CTGAAGCCAC TATATCTGCA TATGTATCCC AGATTTGAAC AATTAAGTAA AAAGATGGTG AATGATGAAA
 GCCAGTTTTT TGTCTGTAGA AGTGAGAGGT GACAGATAAC CAAAGGAAGA AGGCTAGAAT GGATAGAGGA CAGTGCTTAA
 GTGTAGTTCC TGTGCTTTT AGTCTTATAG ACTTCATTTC CAAAGTTTCT TAGCACCCCC CTCCCCCTT TGGTGAGGTT
 GTTTCACATA TTTCTAGAC AATTAGATT TTTGTCAAA GTCTGTGTT CATCCGGAGA GCTCTGATC TCTTAAATGA
 TTTTTTAAAT TTACATACAT TAAGGTTTAC TCTGCTGTAA AGGTCTGTGG GTTTTAAATCC TGTCTCACAG TTTTTCATA
 TGTGCTCTT CTGCTGGGA ATACTCTCCC AGATATCCC CATGACTGGC CCCTTATCTT CAATCAGATC

SEQ ID NO:60: (Length of Sequence = 466 Nucleotides)

GTGTTTCAAG GGAAGGCAAC TMCAAGTTTG TGCAGCTGAA TTTCTGTAAA GTTAAGACAG ACTCAMCTTC TCATTCAATC
 TGGGGCAGTG GATAACCTTT CTGAATAGAC CCAGTTGTTT ACGGACAGGG ATAGAGGTTT GCCTTTCTTC TTTCCCTTGA
 TTTGGAGTGA GCACTAGGGA GGGGAAGTGC ATGGGTGACA TGAAGAAGGT GAAGATGTAG TAAAAGCATC ATCCAGGTAC
 ACATTAAACG TGCTGCAGAA TTTTCACAA ACAACTGAGG GAGTCTGTAG TGGCAAAAGC AATTACTGAG CACAAAAGCC

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AGTCTCAAG GGCTGATTCC ACCTTCCCTG TCCAGGGACT TTCTCAGCAA ACTTTGTTCA TGAGCAGTTG TTGCTTTGA
TGGTCTTAGC CAGTTTTTGG TGCAGGGTG TTCTCTGGT ACTAGGGCTA GGCAGCTGT TTAAG

SEQ ID NO:61: (Length of Sequence = 491 Nucleotides)

GACACCCCTC CTGCCATGAA GAATGCCACT AGCTCTAAGC AGCTCCACT GGAACCAGAG AGCCCTCAG GGCAGGTCGG
GCTAGGCCA GGGGGGGC AGGAAGAGTC CCTTCTCT GAAGCAAAGA GCAGAGGACC CACCCACCA GGCATGGGCC
CAGGGGATGC CAGACCTCCT CGAAGGAGCA GCCAGCCATC TCCAACAGCA GTGCCAGCCT CCGACAGCCC TCCACCAAG
CAAGAGGTGA AGAAGGCAGG AGAGAGACAC AAGCTGGCAA AGGAGCGCG AGAAGAGCGT GCCAAGTACC TGGCGGCCAA
GGAAGGCAGT GTGGCTGGA AGGAGGAGAA AGGCCAAGT GCTGCGGAG GAAGCAAGCT CCATGGAGCG CCGCTGCGCG
TTTTAGGGAG CAAACGTCTT AAAGCCGAGC AACGCCGTC AAGCCTTGA GGAACGGCTA GCGGAAGAAG TTGTGGAAA
ACAAGGGCG T

SEQ ID NO:62: (Length of Sequence = 478 Nucleotides)

ATCATTGAGT ACGCAGAGCT CAAAACAGAC GTGTTCCAGA GCTGAGGGA AGTGGGCAAT GCATCCTCTT CTGCTCTCT
ATAGAGCAAG CTCTGTCTCA GGAGGAGTC TCGATTTC TCCATGCCA CCTTCCAA ACATCTTGCC TAGAGTCTAC
ATCAAAGAGG GGGAGCGCT GGAGGTCCG ATGAAACGTC TGAAGCCAA GTATGCCCG CTCCACCTGG TCCCTCTGAT
CGAGCGCTG GGGACCTCA GCAATCGCC ATTGCTCGG AGGGTGACCT CTGACCAAG GAGCGCTGT CTGTGGCTGT
CCATGTCGA GGTATCTCTG ACCCGATTG GAGCTACCTT CAGGACCAT CTGGCGGGC CACCGCCACC AATGCGTATG
ACGTGATGA GTTTTGTAGT TCACTGCTGT GAGCGCATGA GTCGTGTACT GAATCCTGTG GACAACGGTT AAGTTACA

SEQ ID NO:63: (Length of Sequence = 183 Nucleotides)

CCTGGAAAGT GGGGGTGGG CAGGGGGCCA GGCCAGCAT GCACCCCAT TTTTTTGGG GCTGATCCCT GCCCCAGCTC
TGCTGATACC CGGGGCCACA GCGTCAGCC GTTGGGGTG GAGTAGAGG TGGGAGCA GGGGAGAGAG CCTKAGGAGC
CACAAITGGG CAGACAGAAG CGG

SEQ ID NO:64: (Length of Sequence = 316 Nucleotides)

GGATATTGCA CCTTACAGAC TTAGGGAGCC TTTACCAGAG ACGCCTAAAA CGCCCGAGT TCAGCCATTG TGCTGAATAG
AGTGAATAT AGAACCAGG ACAGAGTATT TCATTTAACG TTGATATATA CTGTCTAAG AAACACTAAC AATACTGTAA
CTTTGTAA GACATAGTA TTGAAATGG AAATAGAGT CAGGCTACA TCATCTAGT TTAATGCTGG GCAACTTTTT
CTGATTTCTG TAGTCCCTG GAAATGTGT CCTTGTACC CATAAGTGG TACAAATGCA TTTGTAACCA TTTTIG

SEQ ID NO:66: (Length of Sequence = 411 Nucleotides)

ATCTGGTCTA GAGAGCGAC TCCAAGCTCT CTGTCTGGCT CCCAGCTGTG GGAATCCTTT AGGCTTGTTC TCAACCTACA
CGTTAAAAAT GCTTCTTGGT GTGTTTGGG AGGGGAGAG GGAACTGAG CTCTCTCTTG ACCTCTCCA ACACCTTGA
CTTGCTTACC CAGCCATTTT CAGTAGCTAC ACGGGTGGT ACAGAACACT GGGCGGCACT CCGCACACAA CACAGAACCG
GGCAGTCCA TGCAGGTGCG GGAACACATG TCGGACCCAG GGAGCAAGGA ACACGCCACC CCGAGGAACA TGCAACCGA
GGAAGGATTC CCTTCAGATT CCAAGGATGC CACAACCCCG ACGGCGGCT TAGGGAGGCA CCGATTATCT AAGGAAAAAG
GCCACTGTTT G

SEQ ID NO:67: (Length of Sequence = 413 Nucleotides)

CIGCTCCTTA TGTTTTTATT TCCAAAGTTT AGAATTTCTT TGCTTCATAG TATTATTTTA TTTTACTAAA TTACAGAGTA
AGAAAAGCTT TTCATTTTAT CTGATTTTAT TCTTAGAACA AAAATATTAC GATCTCTAT ATTTTGTTC TTTTGCCAA

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AAGTGTAGGC AATTTTACAT CATCTTTTTT CCCAATCAGT TTGTGATCCA ACTATAAAAA GGAGACATAG AATACTGAAT
 AAATGAAACA GAAACTCCAA GGCCAAGAAG TGTCCATCTT GAAAGAGTGT TAGTGGCAAG ATATGTGACT GCAGACTAGA
 TGTGACAAA CCTGAGAAAA ACCAAGCATG GGGGAAAGGA TYCCTATTTT AATAAATGGT GCTGGGGAAA ACTGGCTAGC
 CATATGTACT TTA

SEQ ID NO:68: (Length of Sequence = 372 Nucleotides)

GCACGGTTAA AAGACCAACG TGTGTGNTC AAATATAAG GCCACACCTT TCAGACCGAA CCTACTCAA GATCCTTTAC
 TTTGCAATAA TTGAACTGG AGAACCAAG ACGGGAGACG AATGAAAGCA AAGATGCTCA AAGAACCAA GGAAAGACCT
 GAAGGAATCC ACCTGCATAG GCCACGCTT CCACTCTGGG TCAAATGCTT CCAOGATGCA GAAACCTTTT TTTAAAAAG
 TGCAAGTCTA ATTACCTACC AAGGGTAATA AAAAGCACAG CACAGGAATG ATTACAGCTG ATGGTCAAAA AACAAACCAA
 AACCATTAA AAAACAATCA GGCAGAAAAC AGGAGTTAA TGTTTACATA TG

SEQ ID NO:69: (Length of Sequence = 389 Nucleotides)

TCTAGAACCT GGACCCACCC AGCGCGTCCT TCTTATCCC CGAGTGGATG GATGGATGGA TGGATGGTAG GGATGTTAAT
 AATTTTAGTG GAACAAAGCC TGTGAAATGA TTGTACATAG TGTTAATTTA TTGTAACGAA TGGCTAGTTT TTATTCTCGT
 CAAGGCACAA AACCAGTTCA TGCTTAACCN TTTTTCCTT TCCTTCTCTT GCTTTCTTTT CTCTCCTCTC ATACTTTCTC
 TTCTCTCTCT TTTAATTTTC TTGTGAGATA ATATTCTAAG AGGCTCTAGA AACATGAAAT ACTCAGTAGT GGATGGGTTT
 CCCACTTCTC CTCAATCCGT TGCATGAAAT AATTACTATG GTGCCCTAAT GCACACAAAT AGCTAAGGG

SEQ ID NO:71: (Length of Sequence = 329 Nucleotides)

GAAAAAATGG GAGGGCAGCC ATGTATTAAAT TGTACATCCA AGGAACTGT GCGCCAGGGG TCTTGTGTGT ATTTCTGAGA
 AGAGGGGTGA GAAAAGGCAC TTGTCAACA TTGTCTCTG CCTGAACGTG CACCTCCAG TGCTCCTCCA TCAATTAGGA
 GAACGTCTTT GAAGAATGCT GCTCAGCTT CTGAAGAGAA GACCCAGGA CATGCATTAA TGAGAGGAGG GGAGTCACAG
 CTGCAGAAGA ATAAAGCTCT CTGAGGGAGC CTGGGNGCCC CAGTGGAGG CTTGGAGCTT GTTGACCANN GCAGCAGGAG
 ACCCCTGCT

SEQ ID NO:72: (Length of Sequence = 418 Nucleotides)

CTGAGTTGCC TGAGGTCATT CACATGCTTC AGCACCAGTT CCCATCTGTT CAGGCAAATG CAGCGGCCTA CCTGCAGCAC
 CTGTGCTTTG GTGACAACAA AGTGAAGATG GAGGTGTGTA GGTAGGGGG AATCAAGCAT CTGGTTGACC TTCTGGACCA
 CAGAGTTTTC GAAGTTCAGA AGAATGCTTG TGGTGCCCTT CGAAACCTCG TTTTGGCAA GTCTACAGAT GAAATAAAA
 TAGCAATGAA GAATGTTGGT GGGGATACCT GCCTTGTTC GCGTGTGAG AAAATCTAT TTGATGCAGA AGTAAGGGAG
 CTGTTCAGAG GAGTCTTTGG AATTATCCCT CATGTGATGC CTGTAAAAAT GACATTCATT CGAGATGCTC TCTCAACCTT
 AACAAACACT GTGATTGT

SEQ ID NO:73: (Length of Sequence = 336 Nucleotides)

CTGAATTTT ATATGCTTCA CTTAGGCTTT CATTGAGTA GACTCTAAAA ATTCTGCCTT GCTTAAGTNC TAACACTGCC
 TCTCAGATT CAGTTTGGGA CATTGCACAA CTAAGACCTT TTAAACGCAT TTNCITGCTA ACTCGGAAGA CACATAGTCT
 GCAGCAAGAC ATTCCTATAT TGAAGAAATG AGAGAAATTT TTATGCTGCA TCAGGTGGAG AGCAAGGCTC AACGGTGGTT
 GCATTAGTTC CCTCGAAGT ATTGAAAAAN CTTTGAATG GGAAGGAAAA TTTTGTGCAC CTAATGTTCC TGAGGTACCC
 AGAATGTCTG GGGGTT

SEQ ID NO:74: (Length of Sequence = 402 Nucleotides)

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GTGCTCAGTA AATACAAAT GGATGGACTA GAGAGATAGC CCGGAGGACA CTGCCAAATA AATAACAAAT TGTGCAAGCA
 GCAGGCGCT GTAATTAGAC CAAGGAGGAC AGTCAGTTAT TAATATCAGA CACGTGGCAG GGTTAACAGC CACTGAGGGT
 GGGTACAATG AAGAGAGTCA CTTTCTGCAC CCTCAGGGAC TTCCCTTGTG ATGGCCTTCT AAAGAGGGCT GAACAGCACC
 AAGTGGCCTC GCTGCTCTG GTTCTGCTG CCTCCGGGT GCCTTGGGTG CCCCACAACT AGGGCCCTGG GTCCCTCCCA
 TGTCCCTCTC CCTCTACAA CCCCACAGC CCTTATCTGG CCAGCCATTA TGATGCCAT CAGTATGAGG CCAGATGAGA
 GT

SEQ ID NO:75: (Length of Sequence = 454 Nucleotides)

GGACCCGGG CCGCGATGT GGCCAGTAC CTGCTCTCAG ACAGCCTCTT CGTGTGGGT CTAGTAAATA CCGCTTGCTG
 TGTTTTATG TTGGTGGCTA AGCTCATCCA GGTATATGTG TTTGGCCCTC TCGAGTGAG TGAGAGACAG CATCTCAAAG
 ACANATTTTG GAATTTTATT TTCTACAAGT TCATTTTCAT CTTTGGTGTG CTGAATGTCC AGACAGTGA AGAGGTGGTC
 ATGTGGTGCC TCTGGTTTGC CGGACTTGTG TTTCTGCACC TGATGGTTCA GCTCTGCAAG GNTCGATTG AATATCTTTC
 CTTCTGNNC ACCACGGGA TGAGCAGCCA CCGGTGAGT CCGTCCCTG TTTGGTTGCC ATGCTGCTTT TCTGCTGTG
 GACTTGCGGC CGTTTGCTCA TTACCGGGTA CACCAAGGAA TGCACACCTG GCTT

SEQ ID NO:76: (Length of Sequence = 313 Nucleotides)

GCTTTGATAG CTAGTTGTCT AAAAGTGTG NITATTAAAT AATCCACCTN TTTCCCACT TAAACATCC CTCTTACCAT
 ATACTAAAT CCNGTAGCCC TGGGTCTGTT TCTGGACTCT CCGTCTGTG TGACCCCTC CAGGTACAC TGAGTGAGGT
 AATGGTGGC TGAGAATCCT CTGGGAATCT GGCAGNTCA CCCCNGAGCA GTCCACCCN CAACTCATT NCATCGTTCA
 GAGTGGNCTG AGTGNCTCA CACATCACT CTGCCAATG CACTTATGA ACTGTCAAAT TCCAAAGTTT CAA

SEQ ID NO:77: (Length of Sequence = 446 Nucleotides)

CTCAGCCGTA GCCTAAGTC GTTTTCCAA TTAGGAAGC TCACAAGCA GATCTGCATT GTCACGTACC AGCTGTTGT
 GAACCTTTGT AAGCTGTTC AGGTGTCTT CAAGAAAGGA AATCTTCTG TTTTGGGAGT GAATCCCCC ACTGTCTTCG
 GGCTCCATTT CTGCACTTTT CTTGACTCGA GTGCTGACGT CTTGAACGAA CAGCTTGGCA AGGTGTGGC SGGTCTGGAG
 TTCCCGGGCA ACTGTCTCCT CCAGACCCCT GAGGTCTGC TTGTGACTGC TCAATGTGCG TCGTACAGAA ATGTACGCTC
 CTGCACTTTT GGTGCTCTTC TCGTGGTTCT TCGCTCTTTC AGCTTCTCTG TAGTCAAGCC TGAAGGCTTC TCTAAGCTCT
 AACTGGAGCT TCTGATTTAA GGTCTTTGA GCTCATCAA TGGTCT

SEQ ID NO:78: (Length of Sequence = 296 Nucleotides)

AGCCGGTGGC GCAATGGAGA GAATGTGCCT GAGACAGAGC GCCTGGCTGG GGAGGAGGCA GCCCTGGNG CCGAGCTCTG
 TGAGGAGACC CCTGTGAATG ACAACTCATC CATGTTGGTG CGCATGCGC CCGAGGAGCG GCAGAAATAC GAGGAGGAGA
 TCCGCGTCT CTATAAGCAG CTINACGACA AGGATGATGA AATCAACCAA CAAAGCCAAC TCATAGAGNA GCTCAAGCAG
 CAAATNCTGG ACCAGGAAGA GCTGCTGGTG TNCACCGAG GAGACAACGA GAAGGT

SEQ ID NO:79: (Length of Sequence = 285 Nucleotides)

CCTTTCCTGC CTGGGAAGTG ATGACTCGCA GGTGGGCTT GCGGCTGGG GCTCCAAGCT GGGTGTGTG GGTAGGTGGG
 GGCGGAGACT TGGCAGGAT GACCTTGTTT AGGCTGTGTC CATTGGCCAC AGGGAGGAGG CCAGGGGAAG CCGAGCACT
 GACGTAGCCA TTCCCAACAG GGCTGGGGCA GGCTCCGTTA GCACTGTCA GGTCAACNCC CAGCATGGCC
 CCGCACTACGCT GGGCAGGCA GGAGACACAC TGTCTCTG TAGTG

SEQ ID NO:80: (Length of Sequence = 402 Nucleotides)

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ATGATTTCTT GCCTGINATA ACCTATGCAC TCACAAAGAT GAACCTCTCTG AGAGGGATGA GCAAGAGCTT CAGGAAATCC
 GAAAGTATTT CTCCTTTCTT GTATTCCTTT TCAAAGTGCC GAAACTGGGC TGGAGATAA TAGACTCCTC AACCAGGAGA
 ATGGAGAGCG AAAGATCACC GCTTTATCGC CAGCTAATTG ACCTGGGCTA TCTGAGCAGC AGTCACTGGA ACTGTGGGGC
 TCCTGGCCAG GGATACTAAA GCTCAGAGCA TGTGTGGTGA ACAGAGTGAA AAGCTGAGAC ACTTGAGCAC ATTTTCTCAC
 CAGGTGTTAC AGACTCGCCT GGTNGATGCA GCCAAGGCCC TGAAACCTGG TGCCTGCCA CTGCCTTGAC ATCTTTTATT
 AA

SEQ ID NO:81: (Length of Sequence = 246 Nucleotides)

CATTTTAAAT AGAGACGGGG TTTAACCATG TTGGCCAGGC TGGTCTTGAA CTCTTGATCT CAGGTAATCC ACCCACTATG
 GCCTCCCAA GTGCTGGGGT TACAGGTTTG AGCCTCTGTA CCCGGCCCCG CCAAAGACTG CCTATTCTAA ACGTTGCTGA
 GGACGTGGAN CAATCACAGC TCTCCTNTCT TTCCAGTGGG AGTTTAAAT GGCACAACCG CCTGAAAACC GTTTGGNGAT
 TTCTGT

SEQ ID NO:82: (Length of Sequence = 394 Nucleotides)

GGGAACCCCT AGCAAAATAT AATGGTACCG CTATTATCAG CCTGTGTCGA GGCCAGGGA TTTTGGGGGA GGTACAGTG
 TTCTGGAGGA TATTCCTCC TTCCGTGGGG GAATTTGCTG AAACATCAGG NAAACTGACA ATGCGAGACG AACAGTCTGC
 AGTCATTGTA GTAATACAGG CTTTGAACGA TGACATTCCC GAGGAAAAA GCTTCTATGA GTTTCAGCTC ACTGCAGTCA
 GTNAGGGAGG AGTTCTGAGT GAATCCAGCA GCACTNCCAA CATCACGGTG GTGGCCAGCG ACTCTCCCTA TGGCCGATTT
 GCCTTTTAC ATGAGGCAAC TTCGAGTGTG AGAAGCACAG AGGGNTAACA TCACAATCAT CCGTTCCAGT GGAG

SEQ ID NO:83: (Length of Sequence = 308 Nucleotides)

ATAAGACCAT TGGCAAAGGG AGAATTCATG AACTGAAAGA TCTGAAGTAA TTTCCAGAA TGTAATGTTA AGAAATAAGT
 TAAAAGGCAG AGCATAATGA GTCTAACATG TGTGATTGAA GTCTTATAAG GAGAGAATTA AGAMCAGGCA ATATTTTAAA
 GGRATAATGG AGAAAATGGA ATAATTGATG AAATATGTGA ATATATATAG GGACCATATG CATATGAMGG CCGGGGGTTA
 AATAAAACGA AATCTACTTG TACATACITT ATGGGATTCC TGCAGCCCGG GGGGATCCAC TAGTTCTT

SEQ ID NO:84: (Length of Sequence = 313 Nucleotides)

CTTTAECTTA ATGGCAATTA AAACCTACTG GCAAAAAA TCACTAGAGA TGTCACTCCA TTATCTTACC AAATAGTGTA
 TTTTACCAT CTTTACCTA CACCCCTGAG TAAGGTGGAA TAGGTAAAG TTACTGGCAT AATAACACIT CATGAAATC
 ATGATAGTAT TTAACAIGTT AAAACTGTTT AGTTGAAAAG TTCACATGCA ATTTATAATT TAAAAATATG CTACATATAT
 TTCATAAAW TACAATAGGT CATACTARAC TTGACTAAA ATTAAGAATG TKTTTCTKTC ATAATAATGC AGG

SEQ ID NO:85: (Length of Sequence = 303 Nucleotides)

TGCTCCGTTT ATTGCTCTAT TCAATGACCA CGAGCGAATT ATAAAAAGAC ACCAAATGTC TCTGTCTGCC GTGGGATAAA
 TATTTAAAGT CAGCAATAAA GTCACGTGGC TCCAAGRTAA TACATGTTGC CAAAGAGTCA TGCATGCCCT CCTGATGGGC
 TCTCAACACA CGTATGGWCA TGGGAACACA CGCAGAGCAA CACGCAGTAT GAACTTSTGG GAAGGCTTTA CCACAGTGAC
 ACAGTAAAT GTCTACGTA GATCTGRGCT GAGTCCCCAC CCAAACCTTG AGCTCCCCCT CCA

SEQ ID NO:86: (Length of Sequence = 380 Nucleotides)

AAAACAAACC AGCTTTAATA CCAATATAGT TCTCTCTTAA ATACCGTGT TCCCAGGACA AATGCAGGGG CAGGCTCTTG
 GCAGAAAGAG TAGAAAGGAA ATGTGGAACA AAATGGAATG GATGGCCCCG GCCCAGGGTC CCTGCCTTGG GCACTAGGGA
 CTGGGCTGCC TCGGGGATGG GGGAGTGACA GCAGCTCCCC CTGGTCCAGT TATTGCAGAG GCGTGGGGG CTCCCTCCC

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TCCCCAGGCC TGAAACATTT CTCAGGATTA CTTCTGACCT TCAGCCCCAG CAGGGCCAGG GCCTGGGCTC CTCTGGTCTA
GGATGGGCCC CTTTGCCCAA AAGGGCCTTC AGCTAAGGCG TTGGGTTGGG CGGGGAGCCC

SEQ ID NO:87: (Length of Sequence = 280 Nucleotides)

GCCTTTGCTG CTTATTGCA TOGATGGTGA AAGAGATGTC AGGAGCACTT CTCTGCTGAG GTGGCTGAGA CGAAGAGGAC
TCTGCTGCCA GCCTTGCCGC ATACCTGGCA ATTAGCCTGT GTTCTTCATC AAGCCGGTTT GAACTCTCAA GCATGCTCCT
GGTAATAAAA GGACTTCCTG AGGAGGGAAC AGAGTENGAG AACAGGGTGT CGTTCATGCT GGTTCAGGT CTGGGAGGCA
CGATGTGAGC CAAGTTGAGT GGCTTCACAG GCTGATCTGG

SEQ ID NO:88: (Length of Sequence = 446 Nucleotides)

CCTGCGTCTC TTACACCCYC TCCCACCCGA GGCTCCCCAG AGATAGCAGA GAATTCGAAG AGGTGCGCGG GGAAGGAAA
GAAGTCCNG NAGGCGCCT TCGAGTCTA CACCCAGCC TGCTTCCAG CCTACAYCCA GACCCAGCTC AGACCTTGGT
GACACCCCA TCCCTTTCTC CGGCTGGCTG GGTGCGGGG ATCCCTCTCT GTGCTGGCT TCCAGAGGCA GGACAGGCT
CCTGGTAAGC CCGCAAAGTT GCTGAOCTCC TGACTTGTG TGCCTTTTAT TAATATCTGT ATTGCTGATA ACCGTGCTCT
TGACTATGTG TOCCAGGTCA TGTCCAGGT CATGGAGAAG CCGTGGCCAC AGTGACCTT CCCATACTTC TGGGGGGGCT
GCTCTCCATC TGGATGCTAG GAGGATATAG GTGTGTCTG GACCAT

SEQ ID NO:89: (Length of Sequence = 384 Nucleotides)

GTCCCTCTG GGGACTCTRT TTCCCATTT ATTGCTGCTG TGTCCTTAC CAGTTCCTTG CAGGATTCCT TCCTTTTAAA
ATGCCCTTAA ATCTAGCTTT GCCTTGAGA CCCAGTGGG TGCTGCTCCT GCCGTTTTCT TCCTGCCAAG CCTGAATCAA
TGTTTTCATCT CCAACCTCT GCCAGTTTG CCCTCAAAG CTGCTGGCT CAAGACTGTW AGCCTGGCAG AGCCGCGNGG
TGAAGGAGA AGCTCTTGA GCAGGAGGA TGCCACGCT GCTTCAGCTT GCCTCCTGCG CCAGCTACCC TTTGGCCCCA
TTGGGCCCTC GIMTGCTCT CCAGGATGT ATGTTTCAAG NCTTGCTCTG TGTTCCTTG TCTG

SEQ ID NO:90: (Length of Sequence = 344 Nucleotides)

TCAAGCTGGA AAGGGCTACT ACCTCATGCT GGAAAGGGCT ACTACCTCAA GCTGGAAAGG GCTACTACCT CAAGCTGGAA
AGGGCTACTA CCTCAAGCTG GAAAGGGCTA CTACCTCAAG CTGGAAAGAG TACTACCTC AAGCTGGAAA GGGCTACTAC
CTCATGCTGG AAAGGGCTAC TACCTCAAGC TGGAAGAGC TACTACCTCA AGCTGGAAAG GGCTACTACC TCAAGCTGGA
AAGGGCTACT ACCTCAAGCT GGAAAGAGCT ACTACCTCCA AGCTGGAAAG GGCTACTACC TCATGCTGGG AAAGGGCTAC
TACCTCAAGC TGGACAGGGC TACT

SEQ ID NO:91: (Length of Sequence = 364 Nucleotides)

GCCCCAGGT GAGGGCTATG AGGGGTCAGG GGTGAGGTC CCCAGGACCC TAGTCTTGT CCCCTTCCCT GTTGCTAAAT
AAAAGTGAAT AAATACTAAA TAAATACAAC TGGGGCCAG GCCCTCCCTG CCTTCCCCCT CCTCCTGTG ACCCGCAGCA
GAGGGGCGAG TTTAGATGGA GGGCTGTCTG TCAGCCCCCT CCATCCACTA ACCCATCACT GCCTCCAGG GCAGGAAACC
AGGGCAGGGC CAGCCTGCGC ATTAGGGCAG AGAGGAGGG CAGGTCTCAC GCCACAGCC CCTTCCACT TGAGTCTTAG
CATGAGGCAG CAACAGAAGC TCTCTCTTC TCCAGCTAA GTCC

SEQ ID NO:92: (Length of Sequence = 218 Nucleotides)

ATTTAATAGA AAATTAAAAT AATAAATAAT ATGAAACAGA CTGATAACGC TGAGCTGGGC AGGCCAGGC CAGTCTAGTA
CAAAGTTAAG GAGGTAGGGA GGATGGTGGG GAGGAGGGG CGGACTACCC TGCAGGACGC GGGAGGCTGC TCAGACTGTG
GTGATGTCAG GAAGGGCCGC AACTTTGGC ATGGACGATG CACTAAAAA AGAGAAAG

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SEQ ID NO:93: (Length of Sequence = 364 Nucleotides)

GCTTTCAAGG GAACAAAGAA TCGGCCTGGC AGTGCCCTGG AGAAGGAGGT GGAGAGCATG GGGGCCCATC TTAATGCCTA
 CAGNACCCCG GAGCACACAG CTTACTACAT CAAGGCGCTG TOCAAGGATC TGCCGAAAGC TGTGGAGCTC CTGGGTGACA
 TTGTGCAGAA CTGTAGTCTG GAAGACTCAC AGATTGAGAA GGAACGTGAT GTGATCCTGC GGGAGATGCA GGAGAATGAT
 GCATCTATGC GAGATGTGGT CTTTAACTAC CTGCATGCCA CAGCATTCCA GGGGCACACC TCTAGCCAG GCTTTGGAGG
 GGCCCACTGA GAATGTCAGG AAGCTGTCTC GTGCAGACTT GACC

SEQ ID NO:94: (Length of Sequence = 423 Nucleotides)

CTTCATACTA GAACTGTCTG CCATCTTTAT TTCTTTGTTT TCAGGAAAAT TGGAGAGAAA AGTATTTCTT TTTTAAAAAT
 GATTATTATA CTTTAAAGTC TGGGATACAT GTGCAGAACG TGACAGTTTG TTACATAAGT ATACACGTGC CATGGTGGTT
 TGCTGCACCC ATCAACCCGT CATCTACATT AGGTATTCTT CCTAATGCTA TCCCTCCCT AGCCCCCAC CCTCCACAG
 GCTCCAGTGT GTGATGTTCC CCTCCCTGTG TCCATGTGTT CTCATTGTC AACTCCACT TATGAGTGAG GGACATGCAG
 TGTFTGATTT TCTGTTCCTG TGTTACTTTG CTGAGAATGA TGGCTTCCAG ATTCATCCAT GTCTTGCAA AGGCATGAAC
 TCATCCTTTT TATGGCTGCA TAG

SEQ ID NO:95: (Length of Sequence = 405 Nucleotides)

AACAGCCCC GATCTGCATA GCCTGTGAAA GCCCACGGG ACATCAGTAA CCTTCTGCAG CCACCATCCA ATGCCATTAC
 TGTAAGTGA GACTTGGCCA CTGTAGCCTG GGCCTGCTGC AGGAGCTCTT CAGAAAGGCA CATGAGGACC ACGGTTTGGC
 TCAGTTTCTG GTAAAACACA AGGTCTGGAG TGCCCTGCA AAGGGTATTG ATGGACTTCC TGCCAGTGAC AGAGCATGTC
 TATTGCAAC AATTCTCTCA GTTACGTTCA GCACTTAAGA ACGGCTAATG NCAATAGGAT CTTTAGCAAC TTTTTCACAT
 CATAGAAGGT GCAATCGCTC ACTTGGGAAC ACTACTGAGA GTGACTCTC TTTTAAATT GAGTAGCAGA TGAAAAATTA
 AAATT

SEQ ID NO:96: (Length of Sequence = 173 Nucleotides)

GAAGACAATA CTGATGCCAG CTCTTTGTAA TTGTGAAATC TGTACCCAAA CCTCTGGATT AGAATCTCCA GTTGCTACT
 GTAAATACTG GAATTACAGC AAAGGATATG GGGACTGGGC TGCTTTTCTG TATTGTACAA GCACTATTCT AGATATTAA
 GAAATTTAAC CGC

SEQ ID NO:97: (Length of Sequence = 337 Nucleotides)

ATGGCGCCCT ACAGCCTACT GGTGACTCGG CTGCAGAAAG CTCTGGGTGT GCGGCAGTAC CATGTGGCCT CAGTCTGTG
 CCAACGGGCC AAGGTGGCGA TGAGCCANTT TGAGCCCAAC GAGTACATCC ATTATGACCT GCTAGAGAAG AACATTAACA
 TTGTTGCAA ACGACTGAAC CGGCCGCTGA CCTCTCGGA GAAGNTTGTG TATGGACACC TGGATGACCC CGCCAGCCAG
 GAAATTGAGC GAGSCAAGTC GTACCTGCGG CTGCGGNCGG ACGTGTGGC CATGCAGGAT GCGACGGSCC AGATTGGCCA
 TGCTCCAGTT CATCAAG

SEQ ID NO:98: (Length of Sequence = 212 Nucleotides)

TGAAGCCCAA GNAGTNTGTG AAGACAGAGA ATGACCACAT CAACCTGAAG GTGGCCGGC AGGACGGCTC CGTGGTGACG
 TTCAAGATCA AGAGGCACAC GCGCTGAGC AAGCTGATGA AGGCCTACTG AGAGAGGCAG GGCTTTKTC AAAGGCGAGAT
 CAGATTCAAG TTGACGGGC AGCCAATCAG TGAACTGAC ACTCCAGCAC AG

SEQ ID NO:99: (Length of Sequence = 26 Nucleotides)

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CCTTTTAATA ATAATTCTGC TGTCTGCTGT GTACTAGAAC CCATGCCTAC TGCTTGGGGT ATAATGTAGT AAATGTAGTA
 AAAACRAATAT CCGCCGGGCG CGGTGGCTCA CGCCTGTAAT TCCAGCACTT TGGGAGGCCA AGGAGGGCGG ATCACGAGGT
 CAGGAGAGCG AGACCATCCT GGCTAACATG GTGAAACCCC GTCTCTACTA AAAATACCAA AAATTAGCCA GCGGTGGTGA
 TGGAGCGCTG TAGTCCCAGC TACTC

SEQ ID NO:100: (Length of Sequence = 333 Nucleotides)

AAAATGCTCA CAGTGGTCTT CTCTGGCCGG TGAGCCTACA GCTGATCTTG TCAGAGACAA ACGTTAGTTT TACTGAGTCA
 CCCAGAGCCC TGTGCTGGTG CCTGAGGTTT TGTTCATGG GACAGTCTCC ACAATTCTTC TGGGGAAGGG CCACAAATCC
 CACAGTGTGT CCAAGAGGG CTGGAGTAGG CGGAGTCCCC AGCAGCTGTG GCATGACCAG CCATCTCTCT CAAACAAATT
 GTTAACAAGC CTCTGCAAG TTAAGGTTCC ACATGGTAGC CGTGGTACAG AGGCATTCTT CTAGGGTGGG AGAGGCTTGT
 GCTCTACACC AGG

SEQ ID NO:101: (Length of Sequence = 156 Nucleotides)

CTCIGACTTT CCTGTGGNIT TAGAGCCAAG CTCAAGGTAG TAGGCCGTAG GGNCTTATTT TATTTTCAAA CCCCCATCCT
 CAGAGCGCAG ATACATGCAG AGGCTTCTGC CAGGCTACCA CGGGGCCTTA GTGGGAACAG GTTGAGACCA GCACTT

SEQ ID NO:102: (Length of Sequence = 331 Nucleotides)

CGAAAAGGGG NNNATGGCC ATCTTTTATC AGAAAAAGTG ACAAACCGG AATTTAAAAA ATGAATTTTC NNTCTGACTT
 TATTNNAAA TACACTTTCT TTTTNNAAA ACCAATACAC TTCTTTGAG GATGACAGTA TTAGGAAATC CAATTNNACA
 AAAAATACTA CATCTAGTCT GGGGTAGATA TATTTATTTT TGGTAACATA CATTAAAGTGG CACTAATTAC ACAGTAACTA
 TAAGGTAAC TAACTGAAAC CACAGAACTG TAACTCTGCC ACAGCTGCAT GAACTTGGGC TTTCTGTGTT GAGCCCATTT
 TCAAAAACT G

SEQ ID NO:103: (Length of Sequence = 316 Nucleotides)

AGCCACTGCG CCCCACCCCA TTTCGGTGIN ANTCAGCTC ACTTCAACCT ACCCTCCCA AGTTCAAGTG ATTCTCCTAC
 CTCAGCCTCT TGAGTAGCTG GGATTACAGG GGTCTGCCAC CAGCTGGGT GATTTTCCCTA TTTTGTAGTG AACTGCAIT
 TCACCAGGTT GGCCAGGCTG GTGTGAAC TCTGACCTCA GCTGATCCAC CCGTCTCGGG GTCCCAAAGT GTTGGGATTA
 CAGGTGTGAG CCACCACACC AGGCCCATAT TTTCTTTTAG ACATGCAGGC AATGTTGGTG GGTGTGCTG TTAAGA

SEQ ID NO:104: (Length of Sequence = 308 Nucleotides)

GTTTTCTCTG CATCTATTGA GATAATCATG TGGTTTTGT ATTGGCTCT GTTTATATGC TGGATTACAT TTATTGATT
 GCGTATATTG AACCAGCCTT GCATCCAGG GATGANGCCC ACTNGATCAT GGTGATAAG CTTTTGATG TGCTGCTGGA
 TTGTTTTGC CAGTATTTTA TTGAGGATTT TTGCATCAAT GTTCATCAAG GATATTGGNC TAAAGTGTG CTGTATTTCAG
 GAAACCCATC TCACGTGCAG AGACACACAT AGGCTCAAAA TAAAGGGATG GAGGAAGATC TACCAAGC

SEQ ID NO:105: (Length of Sequence = 355 Nucleotides)

GGCCTTCCTC AATATGTAGG CGCCACTTTT TCTCCCTGTG CCTTCACCTG GTCACCCCTC TGTCGCGGAN ATCCCACTGT
 CTCTCTGGGT GTCCAAACTT CCTCTCTTA GGAGGACACA AGTCAGATTG GATTAGGGCC CACCCCAATG GCCTCATTTT
 AACTTAATCA CCTCCCTTTT GTTTGGGCTT TTTAACTTAA TCACCTCTTT AAAGACCTTA TCTCCAATA AGGTTTCATT
 CTGAGGTATA CTGGAGGTTA AGACTTAAA ACACGAATTT GGAGGGGACG TAATTCAGCC CATAACAATA ACAATAATGA
 CATCTTACAA CTTACTGCCA CCACCAAGCT TGCTG

SEQ ID NO:106: (Length of Sequence = 355 Nucleotides)

GGATGAGGTC GCGGGGATCG TGGCTGCACG CCACTGCAAG ACCAACATCG TCACAGCTTC CGTGGACGCC ATTAATTTTC
ATGACAAGAT CAGAAAAGGC TGGCTCATCA CCATCTCGGG ACGCATGACC TTCACGAGCA ATAAGTCCAT GGAGATCGAG
GTGTTGGTGG ACGCCGACCC TGTGTGGAC AGCTCTCAGA AGCCTACCG GCGCGCCAGT GCCTTCTTCA CCTACGTGTC
GCTGAGCCAG GAAGGCAGGT CGCTGCCTGT GCGCCAGNTG GTGCCGAGA CCGAGGACGA GAAGAAGCGC TTTTAGGAAG
GCAAAGGGCG GTACCTGCAG ATGAAGGCGA GGGAC

SEQ ID NO:107: (Length of Sequence = 273 Nucleotides)

GTGTCTCTTT TAAAGAAAC ATACTTTATT TTGGTCTAAA TTGTGAAAT ACCCAAACA TTTGATAGAA ATTGAAGTCT
GTCAACAGTG TTATTTATAC TAAGATCAGG ACAGTCTCTT GAGATCATAC TGTTTTATTA CTAAGTTTGG CCTTTGTTTT
ACAAATGTAA TGTTCATATT TATTGAATT TTAAGATTGG TTAAATGTTA ATGAAAAGCA ATCCAATTGT TANTTTTATG
TAGTGCCCTT TCTCTGTATG CCTTAATTTT ATT

SEQ ID NO:108: (Length of Sequence = 359 Nucleotides)

ATTTTATTTT CTTCATCGA AGAAAATGTT AAAGAGTATC TGCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCCACTG GATGGGGCTG TTCCTATCCC TGCAGCATCT GGGAAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATTA TGTGTGCTGG CAGATGTCCC TGCTCGAAA GACCACTGCA
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTCTTTTG CAGATGTAGT
TCCAGCAGTC AGGTAAGTGG AGAGAGGCCG GGATGAAGG

SEQ ID NO:109: (Length of Sequence = 360 Nucleotides)

TTTATNAAAG CAGTTAAACT TAGCATTAAA TAACACTCTT TAAATGGTAC ACCTATGAAG CAAGAGTTAA ATATAAACCC
AGTCTAATCC TGTACACTTG TGATTAAATG TGACAATCTT AAGTTGCTCA CTCTTTTCCC ATTTACCAAT TCAGAGAAAG
CCCGTTTCTT GTTTCTCCT CACCACTTTG CCTTGGCATC ACACCAACCC TGCTCGGGC TTCAGCTGCA GATCCTCCCC
AGCCCCCTCT CCCAGCTGGG CTGACTCCAG TCCAGCCCC AGTCTCCACC AACTGAGCAG CGTACGCAGG GTTGTGTCTG
GCTTCCAGCA TCTACCAACC CTTGAGCA ACTT

SEQ ID NO:110: (Length of Sequence = 364 Nucleotides)

TCTCAGAGGG GCTCTGGGG TCATTCAAGG GGGACTTCTA GCTTCTCTCT GGAACCTTT GTCCAGAGCA AAGCCAGGTT
TCCAAGGTCC CCACGGCAAG GCTGTTGGGT GCTGGCAGCA AGAGGTACAC AGCAGTTCTC CCAGCTCACA GCAGTGACCT
CAGATCTCCA GCAGCAAGGG CCGCACTCTC GTGCCACAA GGGCCTTGCA GAAATNCTCC GGTCCCTGGG NCTCCCCGG
CAGGAGGGGC GGGGCTCTG CCTGCACTGA GGCCACAGCA CTAAGCGCT TCAGTCACAT GCTTTTCAGG TGAATCACTC
CAAAATTCAGT GAGGAGGGCC ACGACAAGGA AGTTCAAGTA GAAG

SEQ ID NO:111: (Length of Sequence = 455 Nucleotides)

TTTTTTTTTT TATATTTTAA ATGGAATTTA TTCTATCAAC TGCTGAGAG GACACAATGG GGGAGGGGCT TCGGACCACA
GCAGGAGCCC CCACTGCCCA CCTGAGGGCA GGGAGAGCCT GACCCCAITG GCCCAGGCC TGGCTCTGTA ACCATTAAAC
TCTTCCCCCA ACTAACACCA ATGAAAACAC CATTCCAGT GACTGGGCTG TGTGTTTGCC TCTGTGACAT GGGGACCCCT
GACCCTAGGG GTCTCGCCTG AGCCAGACCT GAGGGACCCA CCGCGTAGG ATGGAGGAAG GTTTAGGCTT CCGTTTGTCC
AGCCAACGCC GGGGGGTGGG GCAGACCCTG GGAGTGGGCC TTACAGACCA GCCACAGTA TTTCTTAGGC AATTGTACAC
ATTTTATTAC AAAACAGTC TACATTCATT CCTAAAAGG TCATTTTCAG TAAAA

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SEQ ID NO:112: (Length of Sequence = 398 Nucleotides)

CTGATCTGAC AGGAGGTGTA GGTCAGGCAG TAATGGAAGT SATGGGGAAC AGCTGTAAAT ACAGATAAAG CTTTACTCAC
 TCGCCACCC ACTGCTCATC TCTGCTGTA CTGCCCAGTT CCTAACAGAC AGCAGACAGC TACTGGTCTG TSGCCCAAGG
 GTTGGGGACC CCTGACATAG ACTAAACAAT TCACAATGTT TATATTAAAC AACTTATTC AAGTTTCCAT TTTAGACTCT
 GGAACATCTG ACATGGTGAA TCCACAGGTA GTAAATSGGA AGGGAGATAA CAGACAACCTT GACGGCCGTG GAAGACGCAC
 TGGGCGGGCA CTGGTGAACG GTCTCGGAC AGACTTCACA TCTCCAGACT GGCACAGTGG GCTCACACCT GCCTOCCA

SEQ ID NO:113: (Length of Sequence = 444 Nucleotides)

ATCAGTGTC A GTGTCTAACA GAAGGGTCTG TTAAGGATGC TTCTGATTTA ACCAAAAGAT TAAGCTTCAG AAACAATCTA
 ACATACTCAA AGGAGCACCA AATTATCAAC CGGCTACAAG GATGCAAAGG ACCTAAACAA CAGATGTCAA AGGGCTTGTA
 AAAACTGGAG CCAGCAACCA TTCCACTTGA AGGAATCCAT CTCAGGGAAA TGCTGGAATC CACACACAAA AGCAGGTGTG
 CAAATAATCA CTGCAGCAG CCTTCTAATA GTGAACAACA GAGGCAATCC AAATATCCTT CAACAGGGAA CTGAGTAAAT
 ACCAACTATG GGCATATCCA CATAAGGCTC TCTGCAGTCA TTAAAAAGGA TTGCACCTAC ATGCATGTCT GCCATGGAGG
 TCTTTACGGC CAATGGTTCC ACTCGGAAGG GCAACCAACA ATTA

SEQ ID NO:114: (Length of Sequence = 472 Nucleotides)

TGGGGCCCCA ACGGAGACCT GGGGATGCG GTGGAGGCGG GAGCGGAAGG CGAGGAGGAC GGCTTCGGGG AAGCAGAATA
 CGCTGCCATC AACTCCATGC TGGACCAGAT CAACTCCTGT CTGGACCACC TGGAGGAGAA GAATGACCAC CTCCACGNCC
 GCCTCCAGGA GCTGCTGGAG TCCAACCGGC AGACACGCCT GGAGTTCCAG CAGCAGCTCG GGGAGGCCCC CAGTGATGCC
 AGCCCTTAGG CTCCAAGAGC CCCCACCGG GACCCAACCC TGCTCCCTG GGGCTAAGCT CTGGCCTGGG GCACTCACCC
 CCTGGCTTAG ACAACTTCTC AAGGGCTTGG CCTTCAGGG ACCCTTGTGG GTCTTGCCCTT GCTGGGGCCA CCTTTTCTTG
 CTTGGGGCTT CCCCCTTGGC CTACCTTGGG GCAAGCCCC TACCAACTTT GGATTGCCCTT CTGGGGGGCC AA

SEQ ID NO:115: (Length of Sequence = 293 Nucleotides)

CTNGGGGCCA TGTTGGCTGAT TTCCATCACC TTCTTCCAT TKGCTACGGC GACATGGTGC CCCACACCTA CTGCGGGAAG
 GGTGTGTGCC TKCTCACTGG CATCATGAGA GCTGGCTTTA CCGCGCTCGT GGTGGCTGTG GTTGCTCACA AGCTGGAGCT
 CACCAAGGCT GAGAAGCAG TGCACAACTT CATGATTGAC ACTCAGCTCA CCAAGCGGT AAAAAACGAG GCTGCTAACG
 TTCTCAGGGA GACGTTGGCT CATCTACAAA CATACCAGAG CTGGTGAAAG AAG

SEQ ID NO:116: (Length of Sequence = 448 Nucleotides)

TTTGAAAATT TAGAGGATAT TTATTTCTCA GGAAGGTGCA CAACAGCTGG CAGGCACTGC TTTCCTGCT CTAGGGGATT
 CCTCTCTCCT TTCCAAGAA ATCCCTCTC TTCTTAGAAG TGCCCATGGG AGGCTGGGAT GTGAAAAGAA ACCATACACA
 AACTCCAGA GCCTTAAAAA AATAAAGCAA CAACCTCCTC CACACGAATA CACTTACAAA ATAAATAGAC GGATAAAGA
 GAGGCCACGT GCCTCCCATC CCGGCTGTAG GGCTGCTTGG GGATAGTGGG GCTGGGTGGC TGGTCCAC TTCTCCAGC
 CAGGATGATC CAAAGGCTAA ATGGGATGGA AGGGCCCTGG CTTTCAGAGA GAGGGTGGGG CAGGCCTCTC CTGGTACTCA
 GCAGGGAGGA CACTGGGGCA CGGGTAGGGG TCCAAGGGCC ACTTAATA

SEQ ID NO:117: (Length of Sequence = 551 Nucleotides)

GAGACGGAGG CTGCTCTGT CCCCAGGCT GGAGTGCAGT GCGAGATCT CAGCTCACTG CAAGCTCCGC CTCGGGGTT
 CAGCCATTC TCTGCTCA GCCTCCCGAG TAGCTGGGAG CCAGCGCGCC CAGCCTAAAA AACTTTTCAA GTCAATATTA
 CTACGATTTA ACATTAGAGT GTGGACATGT GATTTAATCG CTATAGCTAA AATACGTCAA ATATACGTTG TCATGTGCTT
 GAACATGATG CTAACCTGA CAGGATGAAG GAAAGTAATA TTCTTTCAGT GTAGTTCAGG AGAGCATTTG TTTTCTTTTC

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TACCAATTAA CCCATCATTG CTTTTAAACA ACCATCTGAA GGAGCAGAGA GGCAGGGTAG AAGACAGAAG GGGGTCTATG
 TGGGTACTAA AGATGTTTCT GTTTTGAAT ATTGTGTGTG TGTGGGTTTA TGGTTTGCTT AAGGGATCAA AACCTGAAA
 AAATGGGATT CCAGGAATGG CTCTGTTATT TTTGCTGGGT TCCAGCTTGT AATGCCTACT GCCTTGGTTC A

SEQ ID NO:118: (Length of Sequence = 426 Nucleotides)

CCCCCCCCA AAATCAAAAC TGAAGGTAGT GTCAGTGTAT ATATGGNGTC CCTGTGCTG AAAGTCAAAG CAGCTTCATT
 TTGGGGCCTC AAGAGCTCCA GCTCTGGGCT CTTACCTCT AAGCCCATGG GCAGTGCCCG CCCAGTGGTG TGTATAGATC
 GGAGGCTGAG GGCTCAGCC TTAGCTGAGC TGTGCGTGC TGGGGAGCCT GTGCAGGAGG GTACAAGTAG GAAAGTGCCA
 TCTGCATGGG AAGAAAAATG CAGCGTCTT GGTAGTGGG ATGGGGTCCA GGAGACCCAG GGAGCTTGCC CAGAGGGACC
 TGAGTGGCAT TCCTGTAGGA AAGCAGCCCA GATCTTGGGG CCGTAACGGA TGTCTGGAA GTTTTGACTT TGAACCAACA
 GGTCCCATG TTAACAAGCT TCTTGA

SEQ ID NO:119: (Length of Sequence = 434 Nucleotides)

TTTTTCGGTT AAAAAGGCC AAAACTTTAT TTAGTTTTCA GGGAAATATA AGATGCATGT AAACATAAAA TACAAAACAA
 AACCCAAATC TTACAGTCTA GAAGCATGCC AAGACAGAGC ATTTTCTGCA GACCAAAGAG TCCCGTCAAA GTGATAAAGG
 ACACCTGGAA AGTGGCAGGC CAAGGGGCTG GTCCCTTCCC CAAGGGCACT GCATTTTGT GATGAGATTA AAAACAAACC
 AACTCCACTA TTAATAATGC TAGAAACATG GGATAGTTTA GCACCACCAT TGATTCTGGC AAATATTTCA GCACTCACAT
 CGACTGCACT GAGTTTAATG TCCTTTCTCC AGTTTCTCTG CTGAGAGGG AAGGAGGGAA ACCTGGGCGG AAGGGGCTCC
 TCCTGACCCC ACAGGGCCAC TAGGAGCTTG GAGG

SEQ ID NO:120: (Length of Sequence = 276 Nucleotides)

AGGAAGTGT AGCAAATGCT ACCATGTGGA AACTCAACT TTATTGCTT TATTTATATA TTTAACAATT CTAAGTATT
 TACTTCTTGC TTGACAAAA AATGAAAAAT ATAGGGCAC TGAAGTACT CTCCTTAGGA GAAAAGGGT ATATGTACAG
 CTATGGAGAG TTACGGTCC CCTTTAACA AAGGCAATA TTAATAAAA AGGGCTTCAT CGGTCAAAA AGGGCTAAGA
 GCTGCAAGCA TTATTACCA CTGTACATCG GGCCCC

SEQ ID NO:121: (Length of Sequence = 554 Nucleotides)

ATTTCTTCC TTAATCATAT CTGATGCTGG GATGTGGGTA ACCCCAAACT GAAGGCAGCT GCTAAATCTC AAATGCTAAA
 AAAATACTGC AATTTTGACA TCAGTGAGTC AGATCAATAC ATCTCTGGG GCTGATTTTG CTTACAGTT AGGATGAGCC
 ATCTCTTAAG CTGCAGGCTC AAATGGGATT AACTGAACTC TATACCTGGG ATGGGCCATG GACTGAGCTG TCCATGCAGA
 AGGACCAGGC TGTCCATGCC TTCCCTGCCC TTTTACTCAC CACTGCACAG CAGCCCCAGT GGGCCTACTG CACATGTCTA
 GGAGAAATCA CTCTAAGAAA ACCAACAGGA ACAGGCTTTA GGCAACAAGA GACGTCTCAC TGCATCTCCT CCCACGTCAG
 AACTTGAGTA CTGGGTCTTT GCAGCTCAGA GCATTCCTCC CTTCCCTTTC CTGCCCGAAA GGCTGCTT TCTGTAGAC
 ATATGGCACT CCATGCTGCA AGTTTCAAGC AGATGCAGGT TCTTATGGG CTTTTTGCTC AAAGAGCTTT GGT

SEQ ID NO:122: (Length of Sequence = 238 Nucleotides)

CACCTAAGCA GGTAGACATC CGCAAAGTCA GATGCTTCC AACATGACAC CTGAACATCT TCCTTTATGC AACACCCAAA
 CATCTTGGCA TCCCCACCCC AGGAAGTGG GGGAGGAGGT TATGATCCCT GGGCGCTTCG GCAGAATGGA GAGCTGAGGT
 GTCCCTCCCC TGCTAGTCAC CTACCAGGTG TCTGAGCAGC TGCATGCTCC CTGGCTCAAG TGGGCACGT ACCTTTTG

SEQ ID NO:123: (Length of Sequence = 244 Nucleotides)

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ATCCAGGCTT TCATTCTAG CCAACCTCA AACACCACCA ACTACAAAGA AAATTAAAA GTCTAATTG TAACCTTCAG
ATAAGTATAA ATTAGTTTTT TCTAGGCTTT CATTTATTTG CTCTTATAC AATCTATCTT GTAAAGTACA TTCCTCTAAA
TTTACATTAT CTAAATTAAG GGCTAAGCAT TATTAAATC ANTTAATCAT ACAATATTTT ATGGCAATAT GCACATATTT
ATAA

SEQ ID NO:124: (Length of Sequence = 330 Nucleotides)

CTCAGCGTAT CATAGGCGTG CTCACCTCC TCCCCACGCT CCGCCCCGC AGGCAGGTGG TGTAGGATAG AGTGGTGCAT
GAAAGGGGGG AAGCCCGAGG GGCCCGCTGG GAAGGGTCTT GCGCGTAAA GGGCATCCCA CTGGCACTGT GCCTCANCTG
CCGCTTTCTG CTTCAGCTCA GCCAGTGGC GCGCTGCTC TTCAATCACT TGTGTCCCT TCTGCTGCAG AGCTAGTTGG
CGCTTTGGTC TCGATGCTCT GCAGTGTGGC TGCCAGGTGG CAAGGAAGGC TGCCCGGTGC CATTTCTGGG GTGAGTAGGA
GCGCTCTTTT

SEQ ID NO:125: (Length of Sequence = 281 Nucleotides)

CCTCTCTCC TTCCGTTCTC CATTAACGA GCCACAGTAT TTCTTAAAGC TCGTTGGCAG CCTGCACCTT GCTTATCTCT
GGGAGACAG AGTTTGCATC CTATTACAAC CCATAGTTTT TGCATAACCA TGGTGAAGG AACCATCCTT CCCAATCCCA
ACCTCAACCA AAGCTTAGAA AAAGTGCCAT CTTAACCTT TCAGAATCAC TCATAAGTAA ATCTATAGC AGTCTCTGCT
AATGCAAT TCAATGTGTG CCGCTTATT AGGTGACTTT T

SEQ ID NO:126: (Length of Sequence = 266 Nucleotides)

CTTTAATGA TGTGGTCTG GTGGGATTTA TAAAGGGAGA TGGACCCCTG GNAAGATGCT TTCTMAACC ACAACCCACA
CATGGGTCA CCATTTCTC TTCTCTCTC TTCTGTGGT GCGCGAGAC CTGTAGGACC TTCCCTCCCT TTAGGGTTCT
GTAAGGCCCC TTTCAGTCC TCAGAGTCCA TTCTCTCTT GTGCTGAGG CCTGCAGTGG GGACCATATA CTCTGGTGC
TCTTAGTTG CTGTGGCTG TGTTTT

SEQ ID NO:127: (Length of Sequence = 435 Nucleotides)

GTCTGGTCT ATTCAATTTG TAGTTGCGAG AAAAGGAATG AACCGTACT ATGGCAATTC ACCGTGACGT GTGATAATTT
AGTTTGTCT GAGTTTTCAC TCTTAGGTAA AACCTAGTTA TCCTAATTAA TAATTAGTTA TGGATGATAT AGTAATTTTT
TTTTTTTTT ACTGCTCTC ACTGTCATC GGGCTGGAGT AAGTGGCTG ATCAGATTC GTGTCAGCCT CGAATCCCT
GGGCTCAGT ATTCTCTGC CTCAGCTTCC CAAGTGGCTG GGGATTATGG GCATGCACCA TCAATGTCTG GCTAATGTTT
GGTGTGTTT TTTATAAAGC CAAGGGTTT GCCATGNT CAAGACCCG GGGCTGGTCC TTGAACCTCT TTGGGGCTTC
AGGCAAGTCC TCCACCTTC GGGCTTCCC AAGT

SEQ ID NO:128: (Length of Sequence = 471 Nucleotides)

TTCCCTTCCC AAGGACTCGA CTTGAGAACC GCCATGTACT CGGAGATCCA GAGGAGCGG GCAGACATTG GGGGCTGAT
GGCCCGGCA GAATACAGAG AGTGAATCC GGAGCTCATC AAGCCCAAGA AGCTGCTGAA CCGGTGAAG GCCTCTCGGA
GTCACAGGA GCTCCACCG GAGCTGCTCA TGAACACAG AAGGGGCTT GGTGTGGACA GCAAGCCAGA GCTGCAGCGT
GTCCTAGAG ACCGCGGCG GAACAGCTC ATCAAGAAGA AGAAGGAGGA GCTGGAAGCC AAAGCGGCTG CAGTGGCCCT
TTGAGCAGGA GCTGCTGAGA CGGCAGCAGA GGCTGAACCA GCTGGAAGAA CCACAGAGA AGGAAGAGGT TCACGCCCCC
GAGTTATTA AGTCAAGGA AACCTTCGGA GATTCCACA CTGACAGCG AGAGAGAGAG CTTTAGGGCC A

SEQ ID NO:129: (Length of Sequence = 186 Nucleotides)

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GCCTTTAACA TCCTCTGCCA ATRACTGGCC TCAAATCACC AGTGGAACCT TTTCAAAAAA TACACCATTG GCTCTATGTA
GTCTACTGA TCIRAAATAT CCACGTGTGG GCCAGGAGCA CTGGCTCATG CCTGTAATCC CAGCATCTTG GGAGAGCGAG
GAAGGAGGAT CATTTRAGCC CAGGAG

SEQ ID NO:130: (Length of Sequence = 307 Nucleotides)

ATAAAATACT TAGGAATATA CCTAACCAAG AAGGTGAAAA ACCTCTCCAA GGAAACTAT GAAACACTGC TGAAAGAAAT
CATAGACTAC ACAAATACAT TTCATGCTCA AGGATGGGTA GAATCAATAT TGTGAAAATG GCCATACTGC CAAAAGGGAT
CTWCAAATTC AACGGTATCC CCATYAAATA CCACCATMT TCTTTACAGG NTTCGGAAAA GGAATTTCTAA AATTCATATG
GGACCCAAGA CGGGGGCCGC ATAGCCCATG GCCGGCTTAG S¹WAAGGGA CAAATCTGGG AGGCCTT

SEQ ID NO:131: (Length of Sequence = 184 Nucleotides)

CCAGGTGGA TGGAGTGCAA TGGACGATC TCGGCTCACT TACCTCCC AGGTCAAGC AATTATCCTG TCTCAGCCTC
CTGAGTAGCC GGGATTACAG GCACGTGCCA CCACCCGAG CCAATTTTTG TATTTTTAGT AGAGACGGGG TTTCACCGT
TTAGCCAGGA TGGTCTCAAT CTCC

SEQ ID NO:132: (Length of Sequence = 270 Nucleotides)

GCNGGAGGCG GTCCAGGGCC AGGAGCTATT CTACACGCC GAAATGGCTG ACCCCAAGTC AGAACTMTTC GMENAGACAG
CCAGGAGCAT TGAGAGCACC CTGGACGACC TCTTCCGGAA TTCAGACGTC AAGAAGGATT TCCGGAGTGT CCGCTTGGG
GACCTGGGCG CCGCAAATC CTTCGNNNC ATTGTGGATG TCCACTTTAA CCCCACCACA GCCTTCAGGG CACCCGAGT
GGCCCGGGCC CTGCTCCGGT AGATCCAGT

SEQ ID NO:133: (Length of Sequence = 529 Nucleotides)

CTTCAGTAC ATAGCATGTG TATTACTGAT AGCTTTATAA ATCTGCCAAA TAACATAGAA TGTAGCCTCA AAAGGATGGT
CGAGGGTTCG CAATCTTTCT TTCTCCACC AGTGGTGTGG AGCAACTCTG TGCCTTAAAG AGGGCACCAT GGAAAGAAAC
AAAAAGGAAT CTCTTTCAA ATGCTGGAAA TTAGGCTTAG CTCACTACTT TCAGGATAAA GACAACTGCA TCTAATTAG
TCCACTCCAC ATTTCITGG ACTCTAAGTA TTCTGCACCT GAAGGCTAAA TTGAAGTGGC TCAGCCCTAT CTTTTTTGCC
ACATCTTTAA TTACAAATCT ATTCTTCTT CCTTCATTT ACTTCTCTC TCTTAAGTAA GAAATGTGGG AAATGAGACT
GGCAGTTTGG TTGTGTTGCA TGTGGGTGTC CATTAGGCGT CTCATCCTAT GGCCCTTTTT GGAAATGTTG CCTTCTACT
ACACACCTGG GAGGTTTCCC CAAGGCTCAA CCTTTTGTCT TCAGGTAAA

SEQ ID NO:134: (Length of Sequence = 437 Nucleotides)

GACGGTGGCG ACCGCTGCAC CGGGGATGTG TCCTGCCACC AGAGGAGGTG TCGTGGCGG GGAGCAGAGG GGCTTTGTTT
CCCAGGTGAA GGTGCGGCTT CTTCACTCTT AGAGGTGCGT GTGTGGGTGG GGGTGCTTGC TGTGAGGTT TATGCTGTA
ACTGACAGCT GTCCCCAAG CCATGCTGGC AGTGTGTAGG TGTCTGTCG GCCACCGCAG AGGAATCCTC TGGGCTTCTG
TGGTTCAAGT GGGGCCAGC GCAGAGCTCC ATGAGTTGCT GAGCAGCCAG CCTTCAGCA TCTCTGGGT TTTGGCAGCA
GGAGGCTCC CCTTGTGCAA TTCAGGGGC GTGGGGGCT GGGGGCACTC GTAGCAAGGT AAAGGAGCCC CTGCTCAGGC
CCTTGTGTTG TCCCCTTTCT TGCAAGAGGG GTAGACG

SEQ ID NO:135: (Length of Sequence = 534 Nucleotides)

GGCATGTTC TGGTGGTGTG GTCACGCTCC CAGAAGACTG AATTTATGTT AGGATCACTC GCAAGGCCTT GTGAAGGAGT
CTTACCTAAA ACAAAGAAA TATCAGGGAC TTTTGTGAC TATTTACAAC TCAGTTTTAC ATTAAATTC AGGCAGTGT
AATATGCCAA GGTAGGAAT GTGCCTTTT CAGAGTTGGC CAGGAGCTCC TGGCTGGGAC ACGGAGAGGC AGGTGTGGCG

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TAAGGCTCA CTCCGGCTG TGAAGGCTC TGATCACACA GAAGCAGCC TGCCAGCCT GGGTCATTG CTGTCCGCTT
 TTCTCTGTGA CCACAAGCAG CCCTGAACAA CCAGTATGTG TCTTCTTTCT CCAGATAGTG AAAAAGGGTG TCCAGATAAA
 CCCACCTAAG TGAATGGGC CATCTCTAA ACTGGGGTAC CTCAGTGCAC AGGTCTAGG TAGGCTTTCC ACTTAATCTA
 ACTTGAGGCC TACAGGTACC CTGTAAAGTT AGTGGGGCTT GTCCITGATT GTGG

SEQ ID NO:136: (Length of Sequence = 279 Nucleotides)

CAGTTTGGAC AAAGTAGCAT AGTGACTTIN TTCTACANT GACTTTCGGA GAAGTINGCA GTTTCIGGCA AAGTGACGCT
 GGGCTGTTTG AAAAAGGCAA GCTTAGCCTA GGCTGCCATC TTAACAATT TCGAGGCTGT AGCTTCCTCA GGATCCTTTG
 CCTGTGGTCT GGTGGCCGGC AGTCCCCCGT CTAACAGCTT TTAAGTCTGC ACTTAGTGCC TGAGCACCTA TGGCTGTGAG
 AGATGCTAGA TACAGAACCC TGCTCTGTAC CACGTGGGG

SEQ ID NO:137: (Length of Sequence = 518 Nucleotides)

CAAATATTTA ATGGAGATCT TCCTGTGTGG TCTGTATAT GTCTATCCGT TTCTGGGTGG TTTAGGAGAA TCTGTACTAT
 TTCAGCATGT CCTCTCCAG CAGCAAAATG AAGAGGAGAA CTAAGTTGTC CATTTAAAAG GTTTGGATTG CACTTTCCIT
 TCTCTAACAA TATGCGAGTG GCCTCAACTT TTCCATACCA GCATGCATAA TGAATGGGTG CCCAGTGGTC ACTATCTAAC
 TGGTTGACTG AAAATCTTTC ACTGAGAAGA CGGCTTAGTA ATTCTGAATC TCCTTCACAG GCGCTTCGGT GGAGAGGAAA
 ATCATCTACC CACTGTGGT CCTGTCTTC TGTGACACTG CTCATGCTTC TCTGCCAGTT TTTCTGTGTT AGGGTATTG
 GATTTTGTAG TAGTCTGGAG CTCTAGACC CAAGTATGGA TTTATTACC ACTTATCTAC CCGATTGTG TACTGAGGAT
 CCTATCCAAC AAAGGGTGTG AATCCAGGAT CCGCCTTC

SEQ ID NO:138: (Length of Sequence = 266 Nucleotides)

GATTGCAGGC ATGANCCACT GCGCCAGTC GAGTGGTAAT ATGTMAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAGA
 GAGGTAAAA TACTGAGTAG ACCATMCTGT AAACAGATGT MCTGTATYC GGGCTTTCAT ATTCCATTTA TAAAGCACAG
 GCAGAGCTCA GAGTAGATT AAYGTAACT TGAAGGGCAC TAGGATTTTC AGAATGGTAA ATAAGCATTG GCTTCACCTT
 AAATYCAAT CTGCATTGGG CTGTGA

SEQ ID NO:139: (Length of Sequence = 341 Nucleotides)

ACCTCGCTCA CGCTCTGAC CACCGACAG CAGAGCAAAG GATGCGGGAG TTGCTCTGC TGCCCATCTA AGGGGACGTA
 GGCAGAGAAG CAAAGGCTC TGCTCTCCCT CCATCCATCC CGGTGTGCTG GCCCAACGG AACAGGAGTC CTTCAACTAT
 TGCTGCCCAG AGACCAATT TTAGGGACTG TAGTCTGCAT CTGGATGAGC TGGGCTGTAG ATTGAAGTCT CAGAAGCAGG
 GAAGGTTGGA AGGGGTAGGG TCCAGAGCC CATGGAGTTA TTGCTGAGAA GATATGCAGG GGACACATTT CCCAGGGGCA
 GAGTAGAAGC CCTGGGCCTT G

SEQ ID NO:140: (Length of Sequence = 234 Nucleotides)

GTGAAGGGAG TTGCAGAATC AAATGCTAC ATAGGCCAAA CAAAAAGAA GGCTTTTCA AAAACATTA AATTCACATG
 CAGTCTCAGA GACTATTTAG GCAAAGTTCA AGTTAGGAGC TTTTAGGATG TGGGANTAAA ACTTTAATKG GAGGGGAGGG
 CTGTCTCTG GAGAAGGAAG AAGCCAGACT TGTTAGACAG TACTCTAAC TCCTAGCCCA GCCTAGCGTG CCT

SEQ ID NO:141: (Length of Sequence = 354 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAACTT TCTTCATTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
 AGAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACTTTTA TTTTATCTC TTCTCTACT
 CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTCTGATTC TGCACTCAT TTCTTATGG CAACTACAAC

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AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGGCTGCG CACTGGGGTT GTGG

SEQ ID NO:142: (Length of Sequence = 373 Nucleotides)

GTTTTTGCAA CACTTTTTTT TTAAGTTATT GGGTGCAAAA TCCCAAACCA GGATATGTGT ATGTCTGTGT GTTTATGTTT
TTNATTGAC CCTCCCTCT TTCAACCTAC CCCCTTTTAT ATCTAATGTA GAAAAAGCGA AATTGAATCT GGAAAGCAAA
CTGTTGTATA TAGTTGCGGT AACATCATG AAGAGAGAGC CGGGCTGTCC AGTTGTTTTT GAGACAGAGT CTCACTCTGT
TGCCAGGCT GGAGTGCAST AGCATGATCT TGGCTCACTG CAACCTCCCC CTCCTGGGT TTAGGCGATT CTCCTGCCTC
AGCCCTCCCA AAGTAGCTGG GATTACAGAC CCGTACCACC ACAACTGGGC TAA

SEQ ID NO:143: (Length of Sequence = 262 Nucleotides)

COGCACCTCG GCCAGAGGCG GCTGCAGCAG CTGCTMCCTT TTCCCTGCCG CCGCCTCTCC AGTCCCTTTT TTAATTACCA
CTCCAMCTGC TGGGAACGGG CGAGAAGAG GAGGAGCGA GAAACTCCA CCGACCCACA GAGGGAGCAT GATTTCGGCA
ACTTCACCTA TCATTCTGAA ATGGGACCCC AAAATTTTGG AAATCCGGAC GCTAACAGTG GAAAGGCTGT TGGAGCCACT
TGTTACACAG GTGACTACAC TT

SEQ ID NO:144: (Length of Sequence = 384 Nucleotides)

GGAAAGCGG GACCCAAACA GTGGTCTGG GGAAATTTTT CCCTGTCCCC TTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACGTG ACAAAGCATA AAGGACTTGG GGTGAGCGT GTGNTGGGC
TCAAGTGACC ATGCAAGTCC GTTCACTCC TTCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGCTTG GCGTCACTG AATTCAAGTT CTGATTTCTC CGTCAACCC AGCAACAGTG
CCCAGTTGA TTGTGACACT TTGACCCAGC ACTTGGTTTT GAATGTTCTT TCGGCTTGT ACG

SEQ ID NO:145: (Length of Sequence = 324 Nucleotides)

CTACATGGAA TCATAAGTKT TCCTAAAAA GGAAGACAGA TTGAAGACA GAGGAGGAAG GTGATGTGAT GATGGAAACA
AGGGGAGAAA ACGCAATGTG ATGTGGCCAC GAACCAAGTA ATGAGGACAG CCTACAGAAG CTGGTCAAG CAAGGAAACA
GATTCTCTC TAAAGTCCCT GGAGAGGGCC TGCCCATGCT GACACCTTGA TTTTKTCCA GCAGAACTC ATTTTGGATT
TCTGGCTCC CAGAAAAGTA AGGGGTAAT GTGCTGTTTT ATGTCAGGTT TKGGGTAATT TGTTTATTGC AGCCATCGGG
AAGG

SEQ ID NO:146: (Length of Sequence = 355 Nucleotides)

TTTGCTCTCT TCCTTCTTIA TOCAAGCAAG GGTGTGGTGA CAATGACCTG ATCGGGGTTT AACGCCGGCT CTGTCTGCTC
ACCAGACCTG GGGTGCTGAG CTCTGACCAG CCTGGGCAGC CCAACCCACA GGAAGTGGG TTTCATAGCT GGGTCTTCAG
GAAGGGGTGG AGGCTTTGGG AGTGGCAGCT CCCCGCTCC CACCACCCCA AGCCAGAGAA TGGGGCAAAC TTGTATGCAT
GGCTTATCTC TAAATTACTA ATCTGCTTCG GACCAGACTC ATCTCTACAG TATAGAGTGA GAGTTATTGC TTCTATGACA
GGTGTTCAG AAGCCCTGGG TGGCTTTAAA GTCTG

SEQ ID NO:147: (Length of Sequence = 337 Nucleotides)

CAGTTTTCTG AGTTCCCGTG TGCTAGACTG GCCAGAAGAG AGGGTCTGGG GCCTGGTCAC TCGGCCACTC TCTCTGTTT
CTGGCCTCTT CTCCTTCAC TCCGTCAG TCTGTTTTTG AGAGCAGGGG CTGTTCTACA GCACCTCAGG GAAGGGAGGA
GAGATACCTG CTGCTTCCAT TGCTTTTCCC TTCTGGAGT CGATGCCCTT CTAAGGGTGG GAGCTGCTCC TTGCAAGGGC

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GGGTCAGTTT CCCAGGCCAT GCCGGGGGTG GCCATCTATG CTAGGGCTGG AAGCTGAGGC TGGCCGCCAA CTGTGGGGCT
GGGGTGGGGG TGGGTGG

SEQ ID NO:148: (Length of Sequence = 278 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCGCCC AACCCCCATC GTCACCTCTGC
TGCAACACGA CACAAAGGTT TAAAGATCTG GGCCCAAGA CTCTGGGACC CTTCAAGCAA GTCAGGTGGA AGAAGGTTTC
CCCCCCCCC ACCAGGCCCTG TTTGTCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG ATGCTTGATA
GGAAGATCTT TGATATCAAT GGCCTAAGCT CTGCTCAT

SEQ ID NO:149: (Length of Sequence = 368 Nucleotides)

TTTTTTTTTT GTTTTCAACA AACTTTACTA AATAACCCCTG GAAAGGCAAT GAACGATCTG ACAATTTAAG CTCTAATGAT
TTAAGCTCA GCTAGAAGAA AGTGAGGCAT GACATATACT GTCAACGGAG GGTGAAGGAG GCAGATTTCT GGAAATGCAA
TGATCCACA CATTGCTTC AAGGAGAAAC CTGCAGACAT ATTTTCAGGT CTGTCTAAGT AACAACTGTT TATTGTGTAAT
CAATACATTT GGGGAAAGTC TGCTATGTAG CTAAGGTCAC TGTGACCACA GACCAACAGA TGGAAAGGAA AAAGGCACTG
GACCAGCAAG GAAAAATACA TCCCCATCCT CAAAGAATT TTAAGGTG

SEQ ID NO:150: (Length of Sequence = 367 Nucleotides)

TTGTGAAATG GGCCTGGGTA GATAAGGAAA AGAACCTCCA AGAGGTAAAG TGATTGCGG ATTGCGCTAA ATTATACAGA
AGAGTCAGCA CCAGTGCCCA GGCTTCTGA TTCTTAGTGC AGTAAACACT AAGCACCATC ATTCCATTTT ACCACACTCC
TGCTCTGCTG TTGTCTCAG CTAAGAAAGC CTACCCCTGA GTTACCCCTT TCCATCTTAG AGCCTTCCTG CTGCTGTCT
GCCCCCTGC GATGGGGACT TCTTTGGCCC TTCTCACCCA GCCCAGCCTC TGCCCGTTTT CCTCTCCTT TCCACTGCGG
CTGAGCTCTT TTCTCCTTCC GAGAAGCCTT TCCTTCATCT TTCCTGG

SEQ ID NO:151: (Length of Sequence = 366 Nucleotides)

CCCAGCGGGC CGCCTCCCTC CTCTCTCCTC CATAGGTGGG GGTGTGGGC CTCTTTTTT TTTTGTCTT GGAGGGCAGT
TAACTTCTC CATTGCTTC TCTCTTACA CCCAATGCC AAAGGACACT TTTCCTTTCT TTTGTGGGTA GTTGCAAAA
AAAAAATTC CTATGGGTA CTGCCACTTT TAAATACTTT GTAACITAAA GGCAAAGTAG TATGTCATG TTTCTTTTCC
CTGTAGTTTA CTTTGTAGGT TAAACATCTT TCCATGTCTT TATTGGTCAA ATACAGTTCC TYCTTTTGT CAATGTAAAT
CCTAATATGG ACCATTTTTC CTAATGGGAT TACCGATTTT TTAAAA

SEQ ID NO:152: (Length of Sequence = 269 Nucleotides)

GTTATTCTGG CAAGTGCTTT CAGGGCCCTC CAGGGTTTGG CTGGTCACCA TGGAGGGGG GTTCAGGTGC TGAATTTAGG
GACCCAGCA TCTCAGGT TTCCCTTCC ATCTTTCCA GTGGCACTGT GTCTGAGCAG GTGTGCCAG GTGAGGTGT
ATCCACTGTG TCTGAGCAGG TGTGCCAGG TGAGGTGTA TCCACTGTGT GTGAGCAGGT GTGCTGTG CAGGTGGAAG
TGGGGATATN TGGGCACCTG GGTGCCATT

SEQ ID NO:153: (Length of Sequence = 260 Nucleotides)

TTTCAGGATT TTATTTAAAA TTTATTGTAA TGGGTCCGC GCAAAGGAA GGGGTGGAG GTGGGTACA TGCAGGGGAC
ACAGGAACAN GATCCACATG GCCAGGNC CAATTTCTTC TGTCGTGGG AAGAGGGATG AAAAGACAAG ACCAGGGCTA
NGAGCTGGG TGGAAGAGG GAGGGGNAAC ACTGGCTGCA TTCCCNAA CCCCANGC ACCTATAGGC CCTGGACCCA
TGGGTACCC TGGGCCCTAG

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SEQ ID NO:154: (Length of Sequence = 405 Nucleotides)

TGGAACCTTGT GAGTGGGGAC CCATGATGTA TGGTCTCAC CTGACTTGAG GTGAATTTTG GAGTGAAGGG CCCTGAGGTC
 AGCTCCCAGG TCGGTCTGTC TGGGCCAGGC CTGGTTTTC AAGGGGCTGA AGGATCCCAG TCCACCTGTG TGCATGTCAG
 GGCTCGGCGG GGAAGAAGCC AGCAAAGTCC CCGTGTGCC TTGCTGAGTA TTCTGTCACA GACAAGCCTC CATTAAAGCC
 ACAGCAGTGC TACCCACCAC ACACACCTTG CTGGCCCGGC CACCACTGCT GGCTTCAGCC CCTTNAGCAG CCCATGGNTT
 AGCAGACCCT CAGATGTAGG TCAGTGGCCT TANCTGTNTC TATCCATGCT GTTAAACTCC CTGCTCCAA CTGGGGGTCA
 CCACT

SEQ ID NO:155: (Length of Sequence = 40 Nucleotides)

CCATGATCTT ATTTATTACA TCTAGTTTTT CTTTATACCT CTAAAAAAA GTGCCTTTTA GATTACAGC TTGTGCTTCT
 AAAGCAAAGG TTAAACATC ATGCCCCAAA GGAAACAAG GTAAAAAGGA AGCTGCCATA TAAGCTCTTA AAANTGTAT
 GTTACAAGGT TCTAAAATCT CTTCAGCACT GGTGGTTGG TAGATTGTAC GACACTGACA TGGTGCTTGG GAGGGTCATT
 TATCTGATGG TTGGAGCAGC ACCATGGGAA AGCTGCCAG ATGGTCTACT GAAGTCTTG GCTGTGCACA GAATGGGCC
 AAGGGCCAGN AATTCATGAG TCCGGGAAC TTGGNGGTC CTTACTCAAT CTCCTTAGTG CTAAAGNTTC AGAGTCTCAA

SEQ ID NO:156: (Length of Sequence = 443 Nucleotides)

GTCTCTGGA TTGCTTCGTT GGTGCGAAC TTAAAGATG GCAAACTGTG ATTGGNTCCG ATTAAGACAA GCTTTGTAGT
 TTTCTTCGTG TAAACACCAA ATCCCGCTG GGCCATGAGG TAGCAGAAGT GGGCCGCATC CAAGAGGCC CTTGAAGCCA
 GAGTGTGCGC CATGGTAGCC ATGTCCTGG ACTCGACGTC CATGTTGTG TTCAAGTTGG ACAAGACCAT GCGAGGTGC
 GGCTTCAAT CTCCCATTT CTCGTCTCCA CAGCAGTGG ACGCGGCAG CATCCGTCCG GACATGAGCT GGTAGACTGT
 CTTCAGAGG TCGTTGATK GGGAGGCTT TTAGCAAAC TGGTTCATGA CTCGGCGTG TGTCGGCTG TTCCATCTTA
 CTGCAAGTA GCAGAGCGTG ACCCCACAAG GCCATTCTTA ATT

SEQ ID NO:157: (Length of Sequence = 383 Nucleotides)

ATTGGAAAGG GTTTAAACG GAGTCGAAC CTGAGTAGAT TTCAAATTT TACAGCCAGG ACTACAGAAG TGCATCATTC
 TAGAATGTGT AGACCTGAGT AGCTTATACA CTACAGAGCA CTTTGCTTAT TTGAAAGTAA TTCAGCAACA GGTCACTTTG
 GGATATAACC TGAACCTTTT TTTGGAGTGG GGTGGGTAGA CTACAGTAGA CACAAGGGCT GGACATGCAG ATGCTTAGGG
 GATTAGCGTT TTTTATAAT TGTCTGTT GTCAATTAT TCTGTGTGT TCTTACCTCT ACAAGGTAC ATTACACATT
 TTARGTTTTT TAGTGACCTT TAACCATGTT ACTTGAAGCA TTTTGAATA TAAAGCTATT TTA

SEQ ID NO:158: (Length of Sequence = 241 Nucleotides)

TGGTSTGTGG CTCAGCTGCA GCGGCASGTA AGTGGTSTC CAGGGGAGTG GACAAGCAAT TCTCCTGTCA TTTGCAACTT
 TCTTCAGGAA CTCAGATAAA GAACACTTGG ATAACGATGA TCCTGTAGA GGGATTTCAT CTGTACCATC ACACATGGAA
 GAGGAGTTTC TAGGTACAGG AAGGCAGCTN CTAAGCTAAA GGTTCCTTGG TCCCTTNGTC CTGGCATGCC TTAAGGAGGG
 G

SEQ ID NO:159: (Length of Sequence = 224 Nucleotides)

CTGTCACTAA TGGCTCACTA AAGGGCCAGC AGTTTAAAT ACACAGGTTG CACTAAAAGC TGCAGCTTTG GCCAGGCAAG
 GTGGATCACG CCTATAATCC CAACACTTTG GGAGGCGAG GCGGGCAAAT CACCTGAGGT CAGGAGTTCA AGACCAGCCT
 GGCCAATATG GTGAAACCTA AGCCTCTACT AAAATTACAG AAATTAGCCG GTCGTGGTGG CACA

SEQ ID NO:160: (Length of Sequence = 377 Nucleotides)

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GGAGGCTGAG GCGGGCGGAT CACGAGGTTA GGAGATGGAG ACCATCCTGG CTAACACAGT GAAACCCCTGT CTGTACTAAA
 GATACAGAAA ACTGGCCGGG CGTGGTGGTG GGTGCCCTGA GTCCAGCTA CTGGGAACT CGGGAGGCTG AGGCAGGAGA
 ATGACCTGAA CCGGGGAGGC GGAGCTTGCA GTGAGCAGAG ATGCGGCCAT TGCACTCCAG CCTGGGCGAC AGAGTAAGAC
 TGTCTCCAAA AAAAAAAAAA ATAATAATCA AAGCTCTTGG ATTTATAGTT TGGTCCCCAG CCTTGTMTTG ATCTTTCCCT
 TATCCTGT TT TATTGCCATT TACCACGTCC TTTTGGAAAC ATCCCTTTCA ACTGCTG

SEQ ID NO:161: (Length of Sequence = 273 Nucleotides)

GCAGCGGCGC CGGGCGAGGA GGCGGCAGGG GCGAGGAGGG GCGGGCGGGT GGCGACCCGC AGGAGGCCAA GCCCCAGGAG
 GCGCTGTG CGCCAGAGAA GCGCCCGCC AGCGACGAGA CCAAGGCGC CGAGGAGCCC AGCAAGGTGG AGGAGAAAAA
 GGCGAGGAG GCGTGGCCA GCTCCGCGCT GCTAGGCCCC CTTCGCGCGG GCGCGCGCG CCGCGGAGC AAGGAGGCAG
 CCGCGCGGA GGAGCCCGCG GCGCGCGCAG ACT

SEQ ID NO:162: (Length of Sequence = 286 Nucleotides)

TTTTGGTCAA ATAAATCAGA GTACTACAAT CATCAAACAT CTGATTCATT TAACATGTGA GCATCTATAC CTGCCCATTT
 GTGTGAATAT TCAGTATATA TCTCATACCT ATTCTCATGC CTTCATTAT TGTGGTTATG GCTGTAGATA TGGAAAAAAC
 AGTAGCTGAG ACATTTTTAT TATGAACAT ATTATACCTT AATCAATCAG TCAGAAAATG CTTAGGAAGA AGAAATGCAT
 GATTGTAAAT GCATGATTTC AACATGCTAC CCGCCAAACA AAGTTG

SEQ ID NO:163: (Length of Sequence = 342 Nucleotides)

TGCCCCAGGA AGACAGAACA TGGAGAACCG TCAAGGCAGG AACCCACAG ACTGTCCCTT CCAGCCCACA CTCTGCCACC
 TCCTGGCCCT GTCCCAATTC TGAGCCAAGG CCTCCCGAG GCAGAAGTTG CCTGGTCTC TGTCCCCACA GTGACCTGAC
 TGGGGGTGAG GGAGAAGGAG GAGAGAGCCC ATGTGTGGTG TGTGTGCCCC TGAGAACTTC GTGGTGACTG CCTTTGGGAG
 CCGCAAGTG GCCAGAGGCA GGGGTAGCTG AGTTCCCTGG AGACCCCTTT TTTTCCCCA RGTCCCCAG AGGGCAACGC
 CATCAGTAGC AGTGTGGTGT TT

SEQ ID NO:164: (Length of Sequence = 392 Nucleotides)

ATTACCGGG CCGCGCTCC CTAAAACAGA TCTACGACC TTAACCGACG CCATGCTGAG GCTCATTCOA TCCCTGCRGA
 CGTATGCAGA GCGCTCACT GCTGCCATGG TGGAGTTCTA CACCATGTTA GGAGGAATTC ACCCAGGATA CACAACCTCA
 CTATATCTAT TCACCCCGTG AAATGACTAG GTGGGTGAGA GGCATCTTTG AAGCGCTGAG ACCTCTGGAG ACCCTGCCTG
 TTGAAGGCCT CCTTCGGATT TGGGCACATG AAGCTCTGCG TCTCTTCCCA GATAGACTCG TAGGGGATGA GGAGAGGCGT
 TGGGACTGAA TGAGAAGATC GACACGGTTG CTCTTGAAGG CACTTTCCCT AACCTTCGGC AGAGAGGAGG GC

SEQ ID NO:165: (Length of Sequence = 406 Nucleotides)

GTTATAATTA TCTGTGTTTA TTATTTATG TTTATCTCTT ACTGTGTATA ATGTAGAAAT TAACTTTAC CATAGGTATA
 TACATATTGG AAAAAGCATC TTATATACAG GGTTTGTTAC TATCTGTGGT TTCAGGCATC CACTGGGGGT CTGGAACAT
 ATCCCTTGCA GATAAGAGGG AACTGCTGTA TCCATAGAAT AAAAACACCC CATCTTGAAG ATAGGAGGTT CTGTAAATTG
 GGATGGGGTC AGGGAATCTG AATTTTAAAA GTTTCCTCATG TGATTGTATG CCCAGCCAAG GCGTGGGGAC CACTGTCTTG
 AAATATAATG CTGAGGAAGA TACTGTCTTT GGATTTTCCT GGTAATTCCG AGTGCAAATT CTCAGGCTGG AACCTTATGG
 GCCTTG

SEQ ID NO:166: (Length of Sequence = 453 Nucleotides)

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GAAAACTTTG CCATGGGTCA GTTTTATTGG AAGTTCATTT TCCTGAATGT TTGGAAGAAA GTCTAGTGAC TCAGGATAGC
 ATTTCTAATT TCACAGAGTT ATTTTCCGT TATGAAACAC AGATTGCCCT TGAGGTCTCC TGTTCCTACT ACTGCCCCCTC
 ACTTTTATGT GGGCCTCCTC TTTCCTTTGT TTCTGGAGAA CCTTTTCCTG TTCAATTCTG TTTTAATTTT CAGCAGTTTT
 TTTTCTGTGT GAGTGAGGCT GTTCTCAGC AGGGAGGTCT GGTGTGGTCAT TTTCAAGTTC ATCAGGGCTT CATCAGGGCT
 TGTCCACTTC AACCCCTACG CTATAGNCC CTNTGCACCA TCTGCANICT TCAAAATGTG CCCACTGGTT CGTTCCCATG
 GANGGCTTGT TGGTAATTTG GGCTTTTAGG GGGGGCCATG GAAGGAGCAA ATC

SEQ ID NO:167: (Length of Sequence = 285 Nucleotides)

TTTACTCTTA AAACGTGTAC AACAGAATCA TGGACTGACA CAGGTAATGG CTGAGCCATA AGCAAATCGA GAAGTACAGA
 AATGTCCAC CCCAAACAGC TCGGAGTAC ACATCACACA GGGCCTCTGG TCCCGGCTT CTCAGGTGCT CTGGAGTGGA
 GGATCCTTTG AGGGAACCTT GACCACTCCT GTTGTCTACC TAGAGAGCAC GCCACTTGGG CCACCTACCC CCAACCTTTG
 GCCAAAGGAG TGAAAGGACC TGAACCTGT CGTCAACCTC AGCAT

SEQ ID NO:168: (Length of Sequence = 327 Nucleotides)

CTAGAGGGCA CTCTGTATAC CGTCAGCTC CTGGAGCCAT TCATTCTATG CTGGGCAGAC AGGCTGTGAG AGGACATGGG
 GGACGGTGA AAGGNTCCAA AGACGAAGCT GTNGTTTATC CTGTGTGGTT TTACACAGGG AATGATGAAA CATTGAAGGG
 GTTTAATAAG CTTTCTCTAA AACATTTTCC CCTTAAACAG GCTGGCACTA TGTCGAAGCT GCCCAAATTT GAGATTGATT
 TACCAGCTGC GNTAAGTCA ACTAAACCCA NGCCTTTCCG AAAGAGACAT CGCAANTGGC TTACCCAANG TANTGTCCCG
 TTTTCAG

SEQ ID NO:169: (Length of Sequence = 346 Nucleotides)

GGTGCTATGG AGAGCCGGCC GTCTCCAGG GGTGAGCTGG GGAGGCTTCT GCGGTTCTGG AGTCCCGGCG ATGGCGCCAG
 TTCCCCAGCA AACCCCTCC AGAGCTGCC CCGGATGCAC AGACAAGGAG GGGGCTTGGG AGTGACTTGA GGCTGTGACG
 GGRTCGCCCT CGGTGTGGG AAGTGAGTCT TCTGTGGCCA AGAGGTCAGA GTCGTCCCTG AGGCTGAGTC GAACACAGAC
 CCGTGGCCCT CATAAATTA AACATAAAG CACAAAATG GCGCAACCA GACAGCATTG GCTTTCAGAC AGGCAGGGAC
 ACGGGGGCCC CTTCGTGTG ACCTGT

SEQ ID NO:170: (Length of Sequence = 398 Nucleotides)

TTGACCTCAA CTACTGAGC AATGCCGTAG CTATGGAATA GAAGCATTG TTGCACTCTT TTTGTGAGCC AGGCCCTGTA
 GGAGGGATTG TGGATGGCAA AACCTCAGGT TCTGCCCAA TCCTCCCTT GGGGGCTGGA GGTCTCTAG TTAATGGCA
 TTCCGGTGCT TAAGGCCACT TTTGGGTAGA GGTGTGGCAA GGATGGAGT TCCAGACCTA TGATCCTCTA AGAATTTAC
 CTTTTAAAA CAGCCACCCA AATGGTGTG GCGTGGGAG CAGGTGGTGG TGAAGGGACT GGGGGTGTCT GGCCATKGCC
 ACGTACCAGA GGAGACTCTG TGAGCCCTCT CCCTGCCCTGA GGGACACTTA ACTTTTATAG CACTACATAG GGTCAACG

SEQ ID NO:171: (Length of Sequence = 321 Nucleotides)

AGACAGCATC TGGCTCTGTC ACCCAGGCTG GAGTGCACTG GCGCAATCTC GGTTCCTGTC AACCTCTGCC TTCCAGGTTT
 AAGTGATTCT CTTGCCCTCAG CCTCCCAAT AGCTGGGATT ACAGGCATGT GCCACCATAC CCAGCTAATT TTGTATTTT
 CAGCAGAGAC GGGGTTTCAC CATGTTGGCC AGACTGGTCT CGAATTTCTG ACCTCAAATG ATCTGCCCAT CTAGGCCCTCC
 AAAAGTGCTG GAATTATAGG TGTGAGCCAC TCGCCTGGC CTTTGGGTAA AACTTCAA TGCAMCCAAC CATTAAAGGT
 A

SEQ ID NO:172: (Length of Sequence = 293 Nucleotides)

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GAAACTTATA GTCTTGCTC CCAACCTTCT GAACACTCCA GTAGAAAAAT CTCTCGCT ACCTTTATCA CCCCAAGACC
TACTAGCATT TCTTACTCTC AAAAAAATC TTTTCTGAAA AATCAAGACA GAGTGCAAAC AATCAGCATA ATTTTATTAT
GACARAACCTT TAAATTTTA TCCCCCTCTC TGAGAGKTCT GCTAGGACTC CTTCAGATAA GTGAAAAAGA AAKTTTTTTAA
AATTTATTCT CAAATCGAA TCOCAATCTG TATAAAAAGG GCGATTCTCC CTC

SEQ ID NO:173: (Length of Sequence = 282 Nucleotides)

GCTTGGTCCC GTTCCTCAGG AAAAGGATGG ACCTTCTCTT CTCTCAGAT GGTCCTTCC ATTCCCCTGA AACCTGCATG
AGAGCTCCTA ACATGTTTCT CCAATGCAAT CAAGCCTAGA CTCCAAATGT CTTCCAGCT CACCTCCATC TATGCATCTC
ATCTCTGGAT TTGGTGATCA GACTCTATAT TGACAGTAGG ATCTCAAACC CTGCATCCAT CCTTCTCCA GCAAGCCCTG
CTAGCCACAT GAGGAACAAG TTCCGCTGTC TTCATGACTT CC

SEQ ID NO:174: (Length of Sequence = 353 Nucleotides)

CAAGAGGTGG GAGAGGTAGG GGGCACTAC AGCTCCCCAC CAGCCCCACC AGGGGGAATG GACCCCTCCC TGCTCCTGC
CCAAGTGGCT CCCCCTGTAT TATGGGGGGG ACTTTGTGCA AACTCTGCC CGAGGGGGTG GGGAGGGTGG AGGGTGAGTG
TGAAATGGCA GCGTTGGGG CTGGCAGCTG TGCTACTGGG CACTGGGGG CTGTAGGGC TCCAGGAGGA GGGCCGAGAA
GGTGTGACC TTGTCTGCC CCCGCACCTC ATGGGGTAAC AGCGGCAMIT TCACGATGTG GAAGTCTTC ATACAGGTCC
TCCAATCTGG TCCAGATACT TGGCCTGGT TCT

SEQ ID NO:175: (Length of Sequence = 394 Nucleotides)

GCCCATGCCC TTGTGTACAT AATCTCTAAT ATTTATATAT ATIGATATAG AATTCTCTCT ATAATATATG TCATAGAATC
TCTCTTGGGC CTGGCGTGGG AATGTGACAT TAAGAAAAACA TGCTAAGACT GGCCAGAAAA ATGGATATTT CCCAGACCTG
GAGGATGGTG TTGTGGGATGT ATAGGTGAGG TGTGGAGAA GATAATAAAC TCATTCCCCA AGATACCCCT TTCAACACAA
GGACAAGAAG GAAGGTGTGT GGTGGGGGAG GGGACAATGG AGGGGGAGGA GTGGAAGATT TGGATTTTCA TTTAATAAAG
TCAATTGAAA AATGAAAGTG CACCCCCCT CCAAAAAACA GGAGATTCAT TTAGCAAGAG CCGTTTCATT CACA

SEQ ID NO:177: (Length of Sequence = 381 Nucleotides)

ATTGGGACGG GCCCCCTCT GAGGOGACGG ATCGATAAGC TTGATATCGA ATTCCTTGAT NTTTTCTAGT GTATGGTTT
TCTCCCACTC CAATACTWT TCATACCTKT GGCTKAGIT TTCCATCTA TAAATCATG TGCTAAATAA TTAATATCA
TCTCTATCAT TTCTAGACTA CACAAAGCTT CCAGCCTGG CAACAGGAAC CTTGTCTCTA AAAAAATAC AAACATTAGC
CAGGTGTGGT GGTATGCGC TGTATTCCA GCTACTTGG AGGCTGAGGT GGTAGGACTA CTGGGCTTT AGAGGTCAAG
GCTGCAAGTG AGCTGTGATT GCGCCACTGC ACTCCAGCT GGGCAACAGG GCAAGACCT G

SEQ ID NO:178: (Length of Sequence = 443 Nucleotides)

GATTTTATTC AAACACAGGC AAGAACAATG ACCTTCAGAG CTGGGTAAAA ATAATAAGTT AAAAGCATGG TTAGAATTTT
AGACAATCAG ATAAAAAGTT TGAAGGAAGT GATTTCCCT TCCTCTCTA ATTGATTAAT TCAACACAGC ATAAAAATAA
TTTGTATCTA TAAATATCC TTGTCCAC ACAATGAAC TGGAGGTGG CCTAGGATT CTTGACTAT GCACAATGCA
CACAATCTAC ATGTCCCTCC TCCCCAATT TTAAGGCAAA AATGGTCTG CATCTTCAGG CAGAGGGTGG GCTCATGCCA
GCAGTCAGCT GTGGTCAAGG AACTGGGGG TGCGTTTCT CCACCGAAAG ATGCTGCTT TGGGTCCACT TTGGGCGCGG
GATCCCATTT TATTTTCTAG CTTGTGCTC ACCACAGGA AAA

SEQ ID NO:179: (Length of Sequence = 325 Nucleotides)

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TGGGGGACCA GCATGCTCC CAGCTGAGGG CGCCGTCTTC CTCACCACGT ACCGGGTCAT CTTACGGGG ATGCCCCACGG
 ACCCCCTGGT TGGGGAGCAG GTGGTGGTCC GTCCTTCCC GGTGGCTGCG CTGACCAAGG AGAAGCGCAT CAMCKTCCAG
 ACCCCTGTGG ACCAGCTCTT GCAGGACGGG CTCCAGCTGC GCTCCTGCAC ATTCCAGCTG CTGAAAATGG CCTTTGACGA
 GGAGGTGGGG TCTTACAGCG CCGAGCTCTT TCCGTAAGCA GCTGCATAAG CTGCGGNTAC CCGCCGGACA ATCATGGCCA
 ACTTT

SEQ ID NO:180: (Length of Sequence = 213 Nucleotides)

GAGCATGCCC CCGGAGTCCC CAAGATCCTG GTGGGGAACC GCCTGCACCT GCGGTTCAAG CGGCAGGTGC CCACGGAGCA
 GGCCAGGGC TACGCCGAGC GCCTGNGCT GACCTTTTTT TAGGTCAGCC CTCTTTGCAA TTTCAACATC ACAGAGTGGT
 TCACGGAGCT GGCCAGGTTT GTNCTGCTGC GGCATGGGAT GGACCGGCTC TTG

SEQ ID NO:181: (Length of Sequence = 219 Nucleotides)

AGCTTTATCA CATTATACAC AACATAGAA AACAGTGTTT CAGAAGAGAA GCAAAGGCCA TTGGCTTCAA ATATTTATGC
 AACAAATGAA ATGTTCTCAG CCCTTAAATG AGCACTGTG ACTTGTCCAA CAGTGAGATA ACTAGTCAAT GGAAGAGTTC
 AACACTAGAG CATGTATCTC AGTCTGTCT CATATTGCTA TAAAGGGCTS CCTCAGACT

SEQ ID NO:182: (Length of Sequence = 451 Nucleotides)

GTCTTACTCT GTTACCCAGG CTGGAATGCA GTGGTGTGAT CATAGCTCAT TGCAACCTCT GCCCTCTAGG CTCAAGTGAT
 CCTCCACCT CAGCCTCCCG AGTAGCTGGG ACTACACGTA CATGCCACCA TGCCAGCTA ATTTTGTAT TTTTGGTAGA
 GACGGGGTTT TGCCATGTTG ACTAGGCTGG TCTTGAATC GTGAGCTCAA GTGATCTGCC TGCCCTGGCC TCCCAAAGTG
 CTGGGATTAC AAGCGTGAGT CATGGTGCTT GGCCTAGTTT GCTCTTATTT TTTTCCATC TTTGCAGTTT CTAGGCCACT
 GGGAACAGGC TGCAGAGCTC AGAGTCCACA GCTGTGAGGC TCCATGTTGC ACCATCAAAA AATAAGGTGA CGAGAGTCTT
 GGGTTTCCCA GTGTACGGC AAGAGGGTT ACTGCTCAG GGTACACACA G

SEQ ID NO:183: (Length of Sequence = 444 Nucleotides)

CCAAGTTGAC CCGCCGAACC ACCGAC-GGA AGAGTGAGTT CCTGAAACT CTGAAGGATG ACCGGAATGG AGACTTCTCA
 GAGAATAGAG ACTGTGACAA GCTGGAAGAT TTGGAGGACA ACAGCACACC TGAACCAAAG GAAATGGGG AGGAAGGCTG
 TCATCAAAAT GGTCTTGCCC TCCCTGTAGT GGAAGAAGGG GAGGTCTCT CACACTCTCT AGAAGCAGAG CACAGGTAT
 TGAAAGCTAT GGGTTGGCAG GAATATCCTG AAAATGATGA GAATTGCCTT CCCCTCACAG AGGATGAGCT CAAAGAGTTC
 CACATGAAGA CAGAGCAGCT GAGAAGAAAT GGCTTTGGGA AGAATGGCTT CTGTCAGAGC CGCAGTTCCA GTCTGTCTC
 CCCTTGGAGA GCACTTGCAA GCAGAGTTG AGGCTCAGCA CCGA

SEQ ID NO:184: (Length of Sequence = 399 Nucleotides)

GGCAGAAAGA GGAAGGAGAC AGTGCCAGGA GGAAGAAGGA AGGAGTCCCT TAGCTCTCTT CATTGTCCCC TTTACTTCCT
 GCTATCTTCT TCTCCTCTTC TTCTCTCTCT TGCCINTATG CCTGTATTTT TGGCAATATG ACAGGCTGCT CTACCCAAGA
 TCAGAACTCC AAAACCACTC CCACCCCTGA AGGTGGGGAG GGTCTTAGCA GCCCTGGGTG GCTGCCTGTG CTCAGGTCTT
 CAGCTCCATG GGAAATAAAA ATGGCACCTT GAATCTCTAG GATTTTGTCA CTTTGGAGTC ACAGCAAAGT TCTCTTCCTC
 TTGTCCCCC GTTGTCTGCT CCTTGGGTGA TAGGACATGG TAAATATTTA TTACTTTCAG GGAACCAGTA TTTTATTAG

SEQ ID NO:185: (Length of Sequence = 263 Nucleotides)

CAGAGACACT GGCCAGCTA TTTTCAGCAG GGACAGAGTC GAGGCTCACT GGGGATGGCT TCAGAGGACA CTGAGGCCCC
 TCTCAGGGAG GGCAAGGCAC AGATACCCA AATTCCACCC CAGTCCCAA AGGTCTCCCA GCGGGGCTGT CCAGTCCATG

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TCAGCAGAAG GCTCTTGGGC GTGTGAGGGA GGGTCTTGA GAACTAAGCG AAGGAGGCAA ACGCCAGGGC
CCCTTGCAAGCACC ATGTGCACCA CTT

SEQ ID NO:186: (Length of Sequence = 343 Nucleotides)

GTTCCAATAG CIGGTTTAT TCTCAGCACA AAAGGGCCCT GTGTAAAAAC CAGAAGGATT TTGTAAAAATA TCAAAATGAA
TATTTGGCCT GGAGGTTGGA AAGTGAAGCA AGGCTGGACA TAGAAAAAA CTGATCAGTA GTTATTCAGG ATATTATTTA
GGATAAATGA AATAGGAACT TAGGGGCATC TCTTACTTTT CTACAGGTTT TTATCTGGGT CAATGAAGAA ATTGTGTTTA
TCTTGCTGCC CTTCATCAG GTTTTGTGCA CTAATGGAAA AAAGCCGGCC GAAAAACAAA ACCCAATCCT TTCAGTCTTA
GCTTTTACAT CTTGCCCTTG CAA

SEQ ID NO:187: (Length of Sequence = 229 Nucleotides)

GGTGGGCTC CACCCCTTC ACGTCATCC CATCAACAAG ATGTTGTCT GTGCTGGGGC TGACAGGCTN CAAACAGGCA
TGCGAGGTGC CTTTGGAAAG CCCCAGGGCA CTGTGGCCAG GGTTCACATT GGCCAAGTTA TCATGTCCAT CCGACCAAG
CTGCAGAACA AGGAGCATGT GATTGAGGCC CTGCGCAGGG CCAAGTTCAA GTTTCCTGGC CGCCAGAAG

SEQ ID NO:188: (Length of Sequence = 284 Nucleotides)

CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCCG ATCAAAGACG AATTTAGCT ACTGCAAGCT CAGTACCACA
GCCTCAAGCT CGAWTGINAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CTTCACTATK TGATGTACTA CGAGAKGTCC
TACGGCTTGA CCATCGAGAT GCACAAACAG GCTGAGACCG TCAAAAGGCT GACGGGATTT GTGCCAGGT CCTGCCCTAC
CTTTCCCAAG GAGCACCAGC AGCAGGTTTT TGGGGGCCAT TGAG

SEQ ID NO:189: (Length of Sequence = 215 Nucleotides)

GGAAGGATGA GAAACAGATT TCTGCTCACT TCATGGGCTG RCTTGRATT GACGATGGTR CAAACCAAG ATTATCCTCA
TGTAATTTAT GAAGATTATG GAACTGCAGC GCATGACATC GGGGACACCA CGAACAGAAG TAATGCAATC CCTTCCACAG
ACGTCACCTGA TACAACCGGT CGGGCACATC TCKCGGCTA TGCTGCCGGT GGTC

SEQ ID NO:190: (Length of Sequence = 153 Nucleotides)

TTTCATATGG AAAGAGCTAG TACAATCACA TATTTGAAAG GAGAAACAAT AGGTACTGAA CCGGAGGGAA AGGGCGAGGG
TGAGTGTGCC AGCACCGGCC TGGTGAATCC ACGATTCCGT TTCCCATCCA AGGGTAAGTT TCCCAAAATA CCG

SEQ ID NO:191: (Length of Sequence = 316 Nucleotides)

GTATTTATAC ATTTATTTAT ATATGTATAT TTAATTGAGA NGAAACGAAC ATTTGGGGGA CAGGAAGCAA GCAGGCCCGG
GGCTGCTTCC CTCCTGCCC ACCTCAGAGT CAGAGTTGGC ACATGACAAA TACCAAGCTC AGGGTGAAGA ACTGGGAGTT
AACTGGGAAG TAGGGKGGC TCTATGCACA CGCAGGCTTC TAAGGGTGCA CGGTATGGGC AGKKGTTTG CACTGGGAGG
CCCTATGTAC AGCTTGAAAG CTAGGGGTGA GATTAGCCCA GTGACTACAG GAACATACGT CAAAGTTGAG AGAAGA

SEQ ID NO:192: (Length of Sequence = 360 Nucleotides)

GIGGTTTTTG GTTATATGCA GCTTTGACT AGCATGTATT GTGCTTTTT CTCTCTATG AATAATTTTA TATTTATGC
TACTTCTGA AAGTTTACTC TTGATGCTC TAAGAGAACA GCCAGATGGT TTATATGAAT AANCTTTATC TGCAGGATGG
TGGATTGGTA AATNAGGAGA ATGTTGTTG AGATATCAAG ATTTATGCTT GGGAACTAAA ATATATAATG CCAAATGTGT
TTTTGTCAAT TACTAGAGAA TTCTGTGCAA ACATATCATC TCTTCACATG CTGCACACTT TGCTTTTTGT TAAACAGCAG
GTAGTAGACA GACCAATACC AGTTTCGGT TAAGG

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SEQ ID NO:193: (Length of Sequence = 397 Nucleotides)

GAAGAAGACCA AGGAGATGGT GAAGACAGCA GAAGCCCAGA AGCAGCAACT GAAGGAGGAG CAGGGGAGGT CAGCAAGGAA
CGGGAGAGTG GGGATGGAGA GGCTGAGGGA GACCAGAGNA CTGGAGGGTA CTATTTAGAA GAGGACACCC TCTCTGAAGG
TTCAGGTGTA GCGTCCCTGG AGGTTGACTG TGCCAAAGAG GGCAATCTC ACTCTTCTGA GATGGAAGAG GTAGCCCCAC
AGCCACCTCA GCCAGAGGAG ATGGAGCCTG AGGGGCAGCC CAGTCCAGAC GGCTGTCTAT GCCCCTKITC TCTTGGCCTG
GGTTGGCGTG GGGCATGCGT CTAGCTTTCA CTCTGGTTCA GGTCCAACAG GGTCCGTTCT GTGCCTTTGG TGCCCCC

SEQ ID NO:194: (Length of Sequence = 225 Nucleotides)

GATTATTGGC TTGTCTTTCA TAACATGTAT TTTAAGTAT TTACTCTCTT AATGGCCCTC GTGTCTATTT TATACATCAT
ATCTCTTAAT TCTCTAGATG GAACACTGAA GGACAGGAAT TAAGTAAGTG ACTGGCCATG CAAGGGTTGG AAATTTTACT
GTATCCCTTC CTCRGTAGAA GTTATGTTAA ACATTCAAGC AACCACATAT CTAACAGAGG AGTTT

SEQ ID NO:195: (Length of Sequence = 294 Nucleotides)

ATTACTAGAT ATTTGTATGT TAAATTATGT GGGTTTTCAA ATTTGTGGAG AATAAGTAAT AGTGACATTA GTTTAAGGAC
AGTGTTCAT CAGGGCATT A TTTTAATGAA TCTTATATTT AAATGTCTGT TTCAGGAATT CATGTGAATC TTTCTTTTTA
TAGAGGACCC ACAGGCATGA NITATTTACT CCTCCGGTGA TAGGTTCTCA CCTGATGAA AGCGGAAGCA AATTCCAGGT
TAGAACATTA TNCIAGTTAT GTAGGGGGGT ATAAAGTGTG TAAGTTTAAT ATTT

SEQ ID NO:196: (Length of Sequence = 233 Nucleotides)

TTATTTTTCT CTAAATTTTA AAATAGAAGA CTTTAATGGA AAACATTTAG TACCATCATG TCAMCCTGAA TGCCAGCAAT
ACCTCGACTT TTACACACGC AGGAAGCCTA GTAAAGCCC CGTCAGTAGT ACACATTCT CTATGGTCCT TCAACAGTTT
TTCATATACA AAATTTTCTG CTATTTTTCG TTTTGCAAAC AGCAATAACT TTTGGGTTTC CCAATATGACC ACC

SEQ ID NO:197: (Length of Sequence = 230 Nucleotides)

AAGATATCTA CCTGGAGTAG CTGTGCAGCC CCGCCCTCTG CTTCCCCCAG CCTCAGGCC AGTGCCAGGA CAGCTGGCTG
CTGACAGGAT GTGCACTGC TTGAGGAGGG GCACCTGCCA CCGCCAGAGG ACAAGGAAGT GGGGGCCGCT GGCCAGGGTA
GGGAAGGKTG GGGCAATGGG GAGAGGCAAA TGCAGTTTAT TGTAATATAT GGAATTAGAT TCATCTATGG

SEQ ID NO:198: (Length of Sequence = 118 Nucleotides)

TTCTCCTGGG GAAAGGGCTG TTGCTGAAGT GGCCGGTTTT TTTAAGCATC GACATTGCA TCCAAAGGTT CAAGCAGCCG
CCTCAGGTTT CARAGGCTTC CACCTGATGG CTGCACTT

SEQ ID NO:199: (Length of Sequence = 268 Nucleotides)

TAAATGATGG AGTTAAATGA TGTGTGTCAGT GCCTATTTAA AAACTACTC TTCCCCTTCT CTATGAGTTC TACTTTGGTA
AATATTAATA TTTAACCAGT TAGTAAAACT AACACCACTA TTTCAATTCT CTTTTGTGCA TAGTAAGTAA ATTTTGCTTT
ACTTACTTTA TAAAAAATA CTTTACATTT TATAAAGCAG GTTTTAGAAA AACGGTTTAC AAGAAAGTTT GCCTCCATTT
CACTGCCAAT TTAAGCACAG GGGAAAAAT

SEQ ID NO:200: (Length of Sequence = 422 Nucleotides)

CCAGTGAGTT TGTGAAAAGC AACAGGGGTA NGACAGGTTT AAGGAAGGAC ACAGACAGTG CCTGTTTTGA GGTCCAAAT
TTCTTCTTTT TAATGGGTGG TGGGAGCTGA GCAATGATGT CATTGTGAAG GGGCAATGAC TTGTCAATNA TGCAGAACAT
GTAGGCATCA TGGAGAAGGA TGTGCATCGG TCTCTTGGGA TGAAAAGTGA TGTGTGTGAT AGGAGTATCC CTTTGGAGCC

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AAAGGTGGTG AAAGCCCTGC TTCTGGACAG TCCGGCTCCA ATCTGTATAC TGTTTGTCCTG GGATGCTGTA CTCAAATACC
 TGCTGGTCCG AATGAGCGAT GACAAGGTTG TTTGGTATTG GGGGCAATAG CCATAGCAGT CACTTGGGAA ATTGTAAGCA
 GGCACCGTGC AGTGAAGTTT TA

SEQ ID NO:201: (Length of Sequence = 273 Nucleotides)

ACTCCACGCT GATGAACCGG ACGTCCATTT CTCGAAGAAA TTCCTGAACG TCTTCATGAG TGGCCGCTCC CGCTCCTCCA
 GTGCTGAGTC CTTCGGGCTG TTCTCCTGCA TCATCAACGG GGAGGAGCAG GAGCAGACCC ACCGGGCCAT ATTCAGGTTT
 GTGCCTCGAC ACGAAGACGA ACTTTGAGCT GGAAGTGGAT GACCCTCTGC TAGTGGAGTC CAGGCCCCCA GACTACTTGT
 TACGAGGGCT ACAACATGTG CACTGGGTGC CCG

SEQ ID NO:202: (Length of Sequence = 436 Nucleotides)

GGACTCCAAC CCCCCAGGAG GCGAATGCT GAGCTTGGCA ATGGTGGCCT GGATGGAGCT GATGGGCACA TCCCCACCGA
 GGACCAGTTC CTGGGAGTCC TGAGGAAGGT GGTTCCTCTG GCTGATGCTT GCACTGGCCA AGGGTTTGCA TGGAGGAGGC
 ACACCATGGC GCTGCAGGAC CTGCTCCACG TGTCACCA CTGCCTCATA GCAGAACCTG AGGTGCAGCT TCTCCTGCAG
 CATGTCTTT CTCTGCTGCC GCATGCGCCG CACCAGCTGA GGCAGCTCAG GGATTCCCTT CCCAGCCTCC ACCTCCTGCA
 CAGCTGCATA GAGCAGTGCA AAGGCTCCCG TGCGGCCAC ACCAGAGCTG CAGTGCACAA TGATGGGCGT TTGCAGGGGC
 CGTGATGCAA GGTAATTTCG GTGCACCTCC TGGGTT

SEQ ID NO:203: (Length of Sequence = 336 Nucleotides)

CTGCATGINT TGGGACACT TACGCCAAGG CGCCGCTTC TCATTAGGAG CTGGGACCAG AAGTGAATAA GCCAGGTTCC
 TGTCTCAGGG AGCTCCATAG CAGGACTCAG AACCACACAC GGCCCTCTAG GCATTTKTGA AGCTCTGTGC TTCAITTTTT
 TTGCTTTGCC TCTAGTTTTG CCTTTGCAGT ACCAATGCAG CCAGCCCATG TKTCCCTCT ATGTGGAATG TTAAGATAT
 TCCCAGTGT TCTGGTGTCC TTTCTGTAAT CAGAGCTGCC GTGACCATTC CAGTTCAGGC ATCCTGGTGG CCTGGCTTTC
 TCTGGGGCAT AGAGCT

SEQ ID NO:204: (Length of Sequence = 393 Nucleotides)

GGAATCAGAT GCTCAGGTGT CCAAGCAGGG ATAAGGACAG GCAAAATAAA TAACCCOCCA ACCOCCATCG TCACTCTGCT
 GCAACACGAC ACAAGGTTT AAAGATCTGG GCCCAAAGAC TCTGGGTCCC TTCAAGCAAG CTCAGGTGGA AGGAGGTTTC
 CCCACCCCC ACCAGGCCCTG TTTGCCCCAG GTTGCCCTAG GATGGAGGCA GTTCAGACCC TGGGTCACTG AAGCTGATAG
 GAAGAACTNC GATATCAATG GCCTAAGCCT GCTGINTGCC CAAGGGAGCC AAGGGCAAGA GCCAAAGGGC CAATTTAAG
 GACGTGGACC TGGGGGGCCA GAGGAGGCAC CACAGCCGAG GGGAGCCACG CCTGGGCCG GCAGGGCACA TGG

SEQ ID NO:205: (Length of Sequence = 390 Nucleotides)

GAGGAAGAGG ATGACCTGAG TGAGCTGCCA CCGCTGGAGG ACATGGGACA ACCCCCGGCG GAGGAGGCTG AGCAGCCTGG
 GGCCCTGGCC CGAGAGTTCC TTGCTGCCAT GGAGCCGAG CCCGCCCGAG CCCCAGCCCC AGAAGAGTGG CTGGACATTC
 TGGGGAACGG GCTGTTGAGG AAGAAGACGC TGGTCCCAGG GCCGCCAGGT TCGAGCCGCC CGGTCAAGGG CCAGGTGGTC
 ACCGTACATC TNCAGACGTC GCTGGAGAAT GGCACACGGG TGCAGGAGGA GCCGGAGCTG GTGTTCACTC TGGGTGACTG
 TNAOCTCATC CAGGCCCTGG TTCTCAGTGT CCCACTCATG GACGTNGGGG AGACGGCCAT GGTCACTTCT

SEQ ID NO:206: (Length of Sequence = 172 Nucleotides)

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CTTACTGTG GGTGTGGTG TCACGTGAC TGCCACAGCC ACTNGGAGGG ACACACAGCT TTAACCCCTR TTGCTTAGG
NGAAGGGTGG GGGCATTGAG GGTATAAAA CTAATATAT ACACAGAAGG TCCTAGGKAG AAAGCCACCC TGAGCACACA
TGCTAGGCA CA

SEQ ID NO:207: (Length of Sequence = 215 Nucleotides)

AAGGCAATTA GAAGATTAT TGAATATTG TTAAGTAG ATTGACAATG ACATTAAAGA ATAAAGTGTA ATTTATTGG
TGCTACTTTG TGAATGCTTC CAAGTACAAA TCATCTACA ATACCATATA CAACATACIT TCAATCACAA CTCAAATATA
AAATAACCTA CAAATACACA TTGCTATAAT CAATATACAA TAATGTATT TTAA

SEQ ID NO:208: (Length of Sequence = 444 Nucleotides)

GGAGTTCTCT TGTCCACGGA GAGCAGTGTT GCAGTGTATG GAATGCTAAA TCTTACCCCA AAGGGCAAGC AGGCTCCAGG
TGCCCATGAG CTGAGTTGTG ACTTCTGGGA ACTAATTGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
AGTCTGACGT TGATGTCCAG CTCAACAACA GACACATGAT GATCCGAGGA GAAAACATGT CCAAAATCCT AAAAGCACGA
TCCATGGTCA CCAGTGCTT TAGAGATCAC TTCCTTGATA GGGGGTACTA TGAAGTTACT CCTCCAACAT TAGTGCAAAC
ACAAGTAGAA GGTGGGTGCC AACTCTTCA AGCTTTGACT ATTTTGGGGG AAGAGGCATT TTGACTCAAT CCTCTCAGTT
GTACTTGAGA CCTTCTCCC AGCCTGGGAG ATGTTTTTTG TATT

SEQ ID NO:209: (Length of Sequence = 338 Nucleotides)

GCAGATCACT TGAGGTCAGG AGTTCGAGAT CAGCCTATAT ATGCAAGTAC ACACACAGGC ACTCGCACGC ATGCATGCTC
ATGCAACACA CATGTACACT CTACATGTAC AGCTCACATA TGCATCCATA CACATGTGCA TGCTACCCCA TACACCAGCC
ACACACAAGT ACTCATAAGC ATACATGGCC ACACACAAAG TACACACAGC TACACCATAT GCATATGTAT GCATCTATAC
ACTCATACAT ATGTGCCCCC TCAGAGAAGT ACACAAGTGC ATGCGCATCA CACATGCATA CGTGCTCATG CATAACACG
GGACATTTCA TACACAG

SEQ ID NO:210: (Length of Sequence = 371 Nucleotides)

GAGGAAGTAG AGCCTNAGGA GGCTGAAGAA GGCATCTCTG AGCAACCCCTG CCCAGCTTGA CACAGAGGTG GTGGAAGACT
CCTTGAGGCA AGCGTAAAG TCAGCATGCT GCAAGGGGAC TGTAGATTTA ATGATGCGTT TTCAAGGGTA CACACCAAAA
CAATATGTCA ACTTCCCTTT GGCTGCACT TTGTACAAA TCCTTAATTT TTCTGAATG AGCAAGCTTC TCTTAAAGA
TGCTCTCTAG TCATTTTGGG TCTCATGGCA GTAAGCCTCA TGTTATACTA AGGGGAGTC TTCCAGGTGT GACAATCAGG
TTATTGGAAA AACAAAACGT GGTTTTGGGA TCTGTTTGGG AGACTGGGA T

SEQ ID NO:211: (Length of Sequence = 295 Nucleotides)

CCTCCCAACG TGTTGACATT ACAGGCGTGA GCACACGCAC CCAGCCCATC TAGCATAATG TTTTGCATAG TTGTCAGCAG
ATAAATATTG AATGACAAAA CTCAGATGGA GGAAAAAGAA CAAAATAACC TAGTTCTCAG AAAGATTTAA TGAGCAAATG
GGAAATGTC AAAAAGATTT ACAGACAGGG GCATCTTAGA GTCACCTGAA TCACACAGGC CTTCCCTCAG CTTGAGGGGC
TGCTTGAGG TGGGGGTGGG GGTACACCTC CTCAGTGGGG AGAGACTTGC CAAAT

SEQ ID NO:212: (Length of Sequence = 370 Nucleotides)

TGGCCGATAT GAGGGGGGTG GGAAGGGCC CCGCGCTGCC CCGCGGCCT CCCTATGTCA TTCTCGAGGA GGGGGGGATC
CGCGCATACT TCACGCTGG TGCTGAGTGT CCGGGCTGGG ATTCTACCAT CGAGTCGGGG TATGGGGAGG CGCCCCGCC
ACGGAGAGCC TGAAGCACT CCCACTCCT GAGGCCTCGG GGGGGAGCCT GGAAATCGAT TTTCAGGTTG TACAGTCAG

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CAGTTTGGT GGAAGAGGGG GGCCCTAGAA ACCCTGTAGC GCAATGGGGT TGGGCGCCCC AAAGGTTAAG TTTGAACCCG
AAGAGCAAAG GAAGAGGCGA TCATCATAAG TGGAGGATTA GGATTAGGAT

SEQ ID NO:213: (Length of Sequence = 302 Nucleotides)

ATCTGTGGAA TAATCTGCGG GCTAACACGG ATAACTCAGT ATAAGAACCA CCCAGTTGAT GTCTATTGTG GCTTTTAAAT
AGGAGGAGGA ATTGCACTGT ACTTGGGCTT GTATGCTGTG GGAATTTCC TGGCCANTGA TGAGAGTATG TTTGAGCACA
GAGACGCCCT CAGGCTCTTT GACAGACCTC AATCAAGATC CCAACCGACT TTTTATCTGC TAAAAATGGG TAGCAGCAGT
GTATGGGAAT TTTCTCATAC AGAAGGGCAT CCTCAAACC GGAAACCACA GAGATGCTAG GT

SEQ ID NO:214: (Length of Sequence = 354 Nucleotides)

ATGGATGAGT GGGCACCCCG CACAGGGCTG CAGGGTGGAA AACGCTCGAC GGCCAGGTGG TGAATGGGG GCAGAGAGCG
CAGTGINGTA GGGGAGGAGA GGTGGTGTCC CTGCTGCTG GGAGCCAGCC TGCCGTGINT GTGGGCAGAG CAAGGCACCT
TCTGCTGCCG GTGCTTCCAG GGCTAAGCA GCGCTGCAC ACTCACCAGC GCAAGGCTCC TCTGCAGGGA ACGAGGGCTG
CTACCCATTT CACAGATGAG GGCAAGCAAG GACTTGCCCA GGGTGGCCA NAGCAAGTGC GTAACAGGCC CTGAGAAGAG
NGCCAGTGAG CTCATCCTGA GTTAATTATG GGCT

SEQ ID NO:215: (Length of Sequence = 260 Nucleotides)

TGGTTCAAAG TCTAGGCCCT CTNAGAGCT GGCTGATTCA GCTTGCCAAC AGTGACATCA GGGTGGGCT TCCTCTGTCC
ACAGCATTAG CTGCGAATAT CCTCATGGTC ACAAGATGGC TGCCAGTGGC CGTCAGGGTG TGTGCTTCCT TGTTACATC
CAGTGAAGA GTGACAGCCT GCTCCCTTA GCTCTCTGAC ACCANTGTGA AGGTGCCANG AACTTACTAG CAGGCTTTTC
CTCATGACCC ATTCAACAGG

SEQ ID NO:216: (Length of Sequence = 232 Nucleotides)

CTTGGACAAG ATCTGGGATA ATTCTCTGGA TTACCTGGCA GAGACTTTT TCTCTTCCC TTACTGTCTC CCAAATAAAC
AGTCTCTCAC TCTGTGTGA GCCACCTGAA GCTGTGATAT TTCCAACGAC TGTAGGAGGA AAAAATTAAG GGGAGAGAGG
AAAACAAAAC CAACCAACCC CTAANATCAT TTTTATTATG TACATAACGA CCTCATCTC CTGTATATGC GG

SEQ ID NO:218: (Length of Sequence = 219 Nucleotides)

CTGCAACCAT CCATACTTT TNCCTGGC TGCTATGGAG TCCCCCAAAC TCCCAGTGG GGCTTATGAG GGTGGGGCAC
TTATTANGIN GTCTGGGAAG CTCATGCTGC TCCAGAAGAT GCTGCGAAGC TGAAAGGAGC AAGGACACCG AGTGCTCAAT
NTCTCGCAG ATGACCAANA TGTTAGCCTT GCTTGAGGGC TTTCTTAGNC TATGAGGCT

SEQ ID NO:219: (Length of Sequence = 390 Nucleotides)

GATAGGTAGC AGAGACCAAG GCGCAGGGTG CTTGAGATGA GCAAGAGAAC CCAGTCGAAC CAGATACCCC AGGTGGGGCG
GAGGGACCCC AGACCTTCAG AGGGCTGCCC TGGTGTCTC CACAGTCAG TCCCTCTGTA TTCCCAGAGT GGGATCGGGG
CTTTCAGCCC ACCCTGATGC CTGCCCTCCA GGATGGCTGG TTAGTCTGG GTCCATGTCC CAGACCCCTC TATTCTGCTC
CAGGACAGCA GGAATTCAGG TCTTTCCTGG GGGTGGATAT AGGAGAAAAT TTCTGCCTGG CACACACCTG GGCTCCAACC
ACTTGCCAAG TGATTCATC TTAGGCCAG GGGGAACACA ATGACTATCA TTAGTATGAC AGACCTGGCT

SEQ ID NO:220: (Length of Sequence = 382 Nucleotides)

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TTTTTGT TTTTAAATAT TTTTGATATT CTCTTTCAT TGAAATGGTA TAAATGAATC CATTTAAAAA GTGGTTAAGG
 ATTTGTTTAG CTGGTGTGAT AATAATTTTT AAAGTTGCAC ATTGCCCAAG GCTTTTTTTG TGTGTTTTTA TGTGTGTTTG
 TACATTTGAA AAATATCTT TGAATAACCT TGCAGTACTA TATTTCAATT TCTTTATAAA TTFAAGTGCA TTTTAACCTCA
 TAATTGTACA CTATAATATA AGCCTAAGTT TTTATTCTATA AGTTTTATTG ANGTTCTGAT CGGTCCCTT CAGAAATCTT
 TTTATATTAT CCTTCAAGTT ACTTCTTAT TTATATTGTA TGTGCATTTT ATCCATTAAT GT

SEQ ID NO:221: (Length of Sequence = 314 Nucleotides)

GACTTTGGTT TATTTAAAAA ACAAGCCAAA AAAAAAAAAA AAAAACCACA ACTTTATATA CAAAGTCAAA CTGAAACCAC
 GGWTTATGGA AAGAGGCAAG AWTATGGGT AACAGGGGAG AAGGCTGGGC CAGAGCCAAT ACCACATTCT GAACACAGGA
 GCCACGGGAA AGAGGTGCTG GTTCTCTCTG GCAAGACCGG GGTGACTGGA ACGCAGTGGT CTTACTGGCA ACCCCAGCCC
 AACACTGAGC TCTTCTAGC ATGGACTCCA TTCCCGTGAT TGGCCAAGGG AGACCTTCC CCCAGGAGGC CTGT

SEQ ID NO:222: (Length of Sequence = 342 Nucleotides)

TTCTTCTCT GCGCGGCAC GTGCGNAGCA GCTGCTTCG CCCCCTGCTC AACTTTGAGC TGGAGGAGAA GCAACTTTGG
 CAGTGGCCGC GGGGTGGGAA TCCCGCTTCT CCTCGGCAGC AGTAGGCTCG CAAGTCGCTG GGGTTAGGTG GGGCAAGAGT
 TTCGCGCGCG CATCAGCGCT TGCTTCGGAC TGTTCGCAAC GTGTTTCAG CGAGCTGGGA GCGGGGGTTG TGACTGCGAG
 TCGTCTGGG GAGGGGACT TGTTCCTCTT TTCTCTAGA GACCTCGCT TTCAACTGGA TCAAACGTTG TCGAAAGGAT
 GTAAATAGGC AAGAGCAAAC TG

SEQ ID NO:223: (Length of Sequence = 376 Nucleotides)

GTGATGGCTG CCTTGAGGGG GACCATCATG TCGGAGACGC ATTGGTGCGAG GTCTCACCCC ACAGCCCATG CCCAGCCTCC
 TGCAGACTCA GGTATCCAG CTGGTCGATG GCTCTTTGCA TACCTGGTGC CTCTCTCTCT CCGGCTTGGC AGGCTTCTCT
 GGGGGCTTCT CAGATGACTC TTTTGCCCTC TTCTCTGTCT TGGCTAACTC CTGGCCAGC TCTGAACGTG CCTCCTTGGC
 TCCCTCTTCT ACCACCTCT CCGCTTGGC CAACTTGCTC ACGGCCGTCT TGGTAGTGGC TTTGAGGCTC TCCTTGCTAT
 CAGCCCGCTG TTTGATTTTG CTGGGCTTGA GGTGGTAAG GCACAGCCCC AAGAAG

SEQ ID NO:224: (Length of Sequence = 445 Nucleotides)

GTGTAGAGAC ATTGGCATTG GGGTTGCTTC CACCTTTTGG CTGTATGAA TAATATTGCT ATGAACACTA ATGTACAATT
 CTTTGCTGA ACGTAAATGT TTTCAATTCT CTGGGTATT TATCTAGAAA TGAAATGCT GTATGTTAAC CCTTTGTTA
 ACCCTTGAG GAAGTGGCAG ACTTTTCCAA AGCAGCTGCA CCATTTTAAA TTCTAACCAG CAGTGTGGA GGGTTCCAAT
 TTCTCTATAT CCTTGTTAAC ACTTGTTATC TGCCCTTTTG GTTAGAGACA TCCTAGTGAG TGTGAAGTGG CATCTCACTG
 TGGTTTGAT GTGCATTTCC CTGATAGCTA ATGTGTGGA TCCCTTTTGC TTTTAGTGA ATGAAATATC TGGTAGTCTC
 GTATGCCAAA CTAAAGCTAA AATTAAAATG ACTCTGCATG ATGGA

SEQ ID NO:225: (Length of Sequence = 403 Nucleotides)

TGCTCTGGG ACAGTTTCCC GGGCAGCTCC TGGCCAGCTT CCAGCCGAGA GTCTCAAGT CCAGGGCACC TTGGGCCAG
 CGCAGGCAGA ATCCGAGGTG GTCTGGCTC TACCTGGGC CTCTACTCC CCAGCACCCC TGGAGGAGGC AGGGGCTCCC
 CGCCCGCAG GCTGCCTGCC CTAGGCCAC CTCTGCATGC TGCTCATGGG GCCACCTGC CTCTGGGCC CTCACTCTGC
 CTAGGGGAGC TGGGCCAGGC ACTAGCCTTT GCCAGGGAG GTGGCCCTCA GGCTGCCAG GTGCCTGCAC CCCAGCCGGG
 CTTCTCTGGG GCCTCCCGT CGTCAAGCCT ATATCCTGTC TGTCCCACC CCAGCTGTCC CTTGCCAGGG GACTGGCATA
 AAA

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SEQ ID NO:226: (Length of Sequence = 440 Nucleotides)

GTGCTTTAAG GAGAGAGATT GTGTTCTTCC TCCTCAGGG GTGATAACTC AGGAAGCCTC TGGGTTGGGA AGACCATCAG
 TTCTTTTGTC TTAGGTTTCT TTTCCTGTCC CTCTTCCATC CCCAAGATGT GACCCCATAA AAATTTTTC TGAATTGGCC
 AGGCATGGTG GCTCACGCT GTAATCCCA CACTTTGGGA GGCTGAGGCG GGCGGATCAC GAGGTCAGGA GTTCGAGACC
 AGCCTGACCA ACATGGTGAA AACCCCATCT CTACTAAGGA TACAAAAATT AGCCGGGTGT GGTGGCACAC ACCAGTAAGT
 CCCAGCTGCT CAGGAGGCTG AGGCAGGAGA TTGCTTGAA CCTGGGAGGC AGAGGTTGCA AGTTAGGCCG GGATTGCGCC
 GTTTGTACTC CAGCCTGGC AAGCAGAGCA AGACCATCTA

SEQ ID NO:227: (Length of Sequence = 426 Nucleotides)

GACCAAGAAG TTCGGTTCG AGGAGCCCGT GGTTCGTGCT GACCTGGAGC ACCAGACAGN CCACCGGCAG TGGACTCAGC
 AGCACCTGGA TGCCGCTGAC CTGCGCATGT YTGCCATGGC CCCACACCG CCCAGGGTG AGGTTGACGC CGACTGCATG
 GAGTCAATG TCCGCGGCC TGATGGCTTC ACCCGCTCA TGATCGCTC CTGCAGCGG GGCGGCTGG AGACGGGCAA
 CAGCGAGGAA GAGGAGGAG CGCCGGCGT CATCTCGAC TTCATCTACC AGGGGCGCAC TTGCCACAAC CAGACAGACC
 GCACGGGCGA GACCGCTTG CACCTGGCCG CGTTACTTA CGCTCTGATG CGCAAGGCG TCTTGAGGCC AGCGAAGATG
 CCAACATCAG GCAACATGG CCGAAC

SEQ ID NO:228: (Length of Sequence = 278 Nucleotides)

CAGGACCAGG AGAAGATCCT GGAAGATGCA GTGGATGAGT GGACGGGCTT TAACAACAAG GTTAAAAAGG CCACTGAGAT
 TGTTTTAGAA AACCAACAGC AAAACACTGA CAAGGTACAT AAATACAGAT TGGACATTTT AGGGTAAATT CACTGTATTT
 CCTACTTGCT TGTAGGAAAC CGAGTAAAGT GGAAAAGCTG TCCTGATCAT ATGGCATGCA CACCAGACTG CAAAAGNCG
 TCCACACTAT TTAACAGGAC TGTGGCAAAA TAGCTTTA

SEQ ID NO:229: (Length of Sequence = 425 Nucleotides)

TTTTTGTTCC CAAGCCTTTC TGA CTGACTT TAAATCTCT CACCTGCAGA ACAGAGATGG CTTCAAAGTG GGGAGTGAGG
 GAGTGAGCGA GGACCTGGG CTGAGACCTG TTTTCTTCC ATTTCTGCTG TGGCTTCCA CAGCTCCCTG GTTCCACACC
 AGGCCCTGCT CTGCCGAGA AAATGGATTC CCAGGCCACA GAGCTGTCAG GCCTTTGACT TTGCAGAGAC CAAGCACCCC
 AGAGGCTGTG CGACAGGCT AGTCCCTGGT GGGCCGTCT GGGCATGGG GGGCAGGAG ACTKGGAGAT GGGGAGGGCG
 TTGAGAATCC GGGGGTCTT GGATACTTGA CAAATTGGCT CAGGCTTAG CTYTGTYTC CCCACTGATT GTGTTGCTTG
 GCAAGGTGCA AGTYTTCGGC TGTTC

SEQ ID NO:230: (Length of Sequence = 382 Nucleotides)

TTGGAGGATG TGCTGCCCT CCTGCAGCAG GCGACGAGC TGCACAGGGG TGATGAGCAA GGCAAGCGG AGGGCTTCCA
 GCTGCTGCTC AACAACAAGC TGGTGTATGG AAGCCGCGAG GACTTCTCT GCGCCTGGC CCGAGCCTAC AGTGACATGT
 GTGAGCTCAC TGAGGAGGTG AGCCAGAAGA AGTCATATGC CCTAGATGGA AAAGAAGAAG CAGAGGCTGC TCTGGAGAAG
 GGGGATGAGA GTTCTGACTG TCACCTGTGG TATGCGGTGC TTGTGGTCA GCTGGCTGAG CATGAGAGCA TCAGAGGCG
 CATCCAGAGT KGCTTTAGCT TCAAAGGAGC ATKTTGACAA AGCCATKCT CTTCAGCCAG GA

SEQ ID NO:231: (Length of Sequence = 398 Nucleotides)

GAGGCTGGAG AATCGYTTGA ACCCAGGAGG CGGAGGTGTC AGTGAGCCGA GATGGGCCA TTGCACTCCA GCCTGGGCCA
 GAGCAAGGTT CCTTCTCAA AAACITGGAA ATCTGTTGGG AAGTAGGGG AGGGCAAGGT TAAACCTAT GCAGGTGTGT
 CAATTAGACT TGTTCCACT TGAGAACCTG AATTTTGCAT GTAATTGAAA TGTTCCAGAA CAAGTCTGCG AGTTTCATAA

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GGGAGTTTTT AGATGCCAAT ACATTGCAGA TAACCATATT GGTACATTA GGGGAATGAG CATGGGATAG GTGCCTCCCA
GTTGGTAGGA TAGCATGAGG AGGTTTCAA AGTAACCSCT TTAAGGGTTA TGTCCAGTAT TTGCTAAGTA ACCAAGGT

SEQ ID NO:232: (Length of Sequence = 272 Nucleotides)

GGGGCTGCAG ACTGAGTTAT TTTATTTGCG TATTTCCAGT TTGAAGCTAC TATCATGGGC GTTTAGAGTT ATACAAATGA
CACTTACAAA AAATAAAAGA CCAAGACACC CAGAGTGAGA TGCATGTTGG GGACGGGGGA GGCTGGCAGC AGGGGGGGCC
CGGCGGYTCA CCCCAGGGCT CCGGAGGGG CGACGCCTGG CTTCATCCAC CCGGGAGGCC CAGGGAGCAC CAATCAGAG
AGGGGCTCTG GCCCAGGTGT CGGCAGCCCA GG

SEQ ID NO:233: (Length of Sequence = 364 Nucleotides)

ATTTTACAGT TTTATTTTAA AATCATTTAC ACATATTCAT ACAAAGAAAA ATAAATTTCA GGATGGAATC CTGGGGACCA
TGGTAGTTTA AAAAAAAAAA TCTCTCTGAT CATTAGCTAC TAAAGACANG GCAAGAGGCT TAGCAGTCAT TTCTGGGGGT
TAGTGTATCT CCCCATGCAG GGGACAAC TGAGAAGTCC AAGCTGCTCC CTCATCTTCC TTCGATCTAG ATGGGGGAAG
GGGATTTTCC AATGCTCTCC CCTAGAAACA TTTCAAGAAG TACAGCAAAG GCTTATGGTA ACACTGGAAC CTATTTGCTA
GAAATCTGGC AAGATTGCAC TTTCTGAACC CAATTTTCCT ATAA

SEQ ID NO:234: (Length of Sequence = 217 Nucleotides)

GGCCAGGAGC CAGAGGGCCC CGGGGCCACC CCTGCCGGG AACGTGATGA CCAGAGTCCA GACAGTGTCC CAGAGAGGCC
GCGGCCCCGA GACCGGAGGC TCTGTCTGCC CTNCGTGGAC GCCTCGCCAC TCCAGGGAG GACGGCTGC CCGTGCCTGC
AGGAGGCCAC GCGGCTCATC CAGGAGGAAT TTGCCTTCCA TGGCTACCTG GACAATG

SEQ ID NO:235: (Length of Sequence = 221 Nucleotides)

AACTTTAAAG TTAGGATTTT AAAATATTTG TAACTGGCTA AATTTTAAAG TGTGACAAA TAATTACTTA GGTTCAGAAA
TATACACACA CTTACTCTTT AGCCAGTTTC TTTCAAGGTN TTAAGTCTCC ATCAGATATC TAGCCATTTK CCTTTGCAAA
TTACATACCT TCTTAAGAGT GTATTTTAA GATTATTACT TATGCTTTAT GATGATATAG T

SEQ ID NO:236: (Length of Sequence = 221 Nucleotides)

ATAAATGGT TTCTCACTCC TTAGGGACAC GATTGGAAAC AATACATCCC ATGAACACAG GTGAATGTCC CTGGTTATCC
CTGAGCTGGG CAGTTTCACA CAATCANITT TNCTCTGAGG CCAAAGTCTG TGGTTTGATC ATCTTAGCAG CTTCCAGAAC
AGAAAGTAGG TTTACTTTGT CTCCAAANTC TNATTCTCGG TGCTCAAAGA AGAATGACCT G

SEQ ID NO:237: (Length of Sequence = 251 Nucleotides)

GACATCTTTC TAAGATTCTC TGTGGGAAAA TGACTGTCAA TANAATGCGG GTTCTGGGC CATTCGTCTT ACTTTCATTT
TTTGATTACA AATTCTCTTT GACGCACACA ATTATGTCTG CTAATCCTCT TCTTCCTAGA GAGAGAAACT GTGCTCCTTC
AGTGTGTCTG CCATAAAGGG GTTTTGGGAA TCGATTGTAA AAGTCCCAGG TTCTAAATTA ACTAAATGTG TACAGAAATG
AACGTGTAG T

SEQ ID NO:238: (Length of Sequence = 327 Nucleotides)

GTTCGTGGCT GTCACAATAA TGCTGTGATA ATGCTGTGGT TTCCAGCAG GGAGGTGGGA GCGGGGAGGG GGCTGCAGCC
TGATGAGAGC CAGCTGAAGG AAGAGCTGCC TCTCCCTTCC TAAGCCCCTT CCCAAGGTCT GCCCACCGC CCAACCAAA
GACCACTCCG AACAAAGTGA GGATGTGGAT GCTCTGTCTG GTTCCGCTGT TCCGAGAGG GAAAGAAAGG GTAGCTGCAC

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TGACCCCACT GTCCCATAT ACAAGGGTTK GGGGGCAAGA GCATGTGGCT ACTCCAGCA AGGGRAAAT GGGAGGAGCA
GTAGAAA

SEQ ID NO:239: (Length of Sequence = 285 Nucleotides)

ATTATTAGTT TATGGTGCTT TAAACCTATC AAAATAGTTG TAAGTAAATG GATTTCTTGT NCTCCCAATA ACAATTCTCT
GAGCTAGGAT AGATGTCTTT CTGGCCATTT TACAGGTGAT GACACTGACA TAGGGACTGA GTGGGTAGCT TAAGTNCAT
GGTTACCAGG AGCAGGACCN ACGTTTCCTG NCTCCAGTC TCATCTGT TTCCACTGAC CAGGTGCGTT GCTCCCTTGG
AAAGCAGTCC CTGAGAGTTG ACTTAGAAGT TCAGGGNGAA GAGGT

SEQ ID NO:240: (Length of Sequence = 349 Nucleotides)

TTTTGCCATG TTGGACAGGC TGATCTCAA CTCTGGCCT CAAATRATCT GCCCAGCTTG GMCTCCCAA GYGCTGGGAT
TACAGATRTG AGCCACTGCA CCCAGCCTGA CATGCCATAG TTTCAGCATT TTCTGGGCA ATGATCCAAG CTGAAGGCTG
GTCTGAGGGA TCTSAAGAAG CGTATGAGTT GGAAGAGAGG GACAGAAAGG AAGAAGACAT GTGAAGAGAG AAAAGGAAGG
AAGCTAGCAG AGGAATGCCC TCCAATAGAG ACTGCTGCCT GAAGCTCAGC CCTCTGAAG ATAGGTAGGC CAGGCTGGCT
TAGCTGAGGC AGTGGGTTAG ACCAGCCCT

SEQ ID NO:241: (Length of Sequence = 233 Nucleotides)

GTGCAGCGGT CTGCCTTCAT CTTTAAATGG CCGGTGCGGT ACAGTTAGTG GACAGACGGG GGATGGGACA CAGCAGGGGT
GAAACAGGGC AGTCACAGCC GGGGCCGGG ATCTGGAAGC GGGGGCGTCT CTCCCCTGG AAACACCGTN TCTGGAAGGA
CACCCCTAGG ATCCCCTGAC CTCARGGTGC CACCCACAG GGCCTGGTGT TCTGGGAGGC CCGCTKGAG TGA

SEQ ID NO:242: (Length of Sequence = 372 Nucleotides)

ATAITACTA CATTGGTGG AATACGCATG TACAATCTT CAAAATAGT AAAGAGCAA ACAACAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAAT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTATAT
CCTAAGCATT TTATTTAGC TCAAAATATA AAAATATTCA TCAGTTAGCC AAGCTTTTGN GATGAGAGAT CATAGCCTCC
TCTTTGATAG GGGGTTTCTT GGGTTTCCTT GATTTCATGT TTCAGAGTTT TT

SEQ ID NO:243: (Length of Sequence = 256 Nucleotides)

CTCACACATT CATACCCAAG GAAGAGGCAA ACACACTCAA GTCCAGAGTT CCCAGTGGTG CCGCCAGAC CTACTGTCCC
GGGGGTGTTA TGGCTGTCCC TCGCTTCCC CAGAGCAGCC AGGACAGCCT GCACCGNCTN CCAGACTCTC GCAGGAAGGG
GAGCTCTGCC CTGGGGAGGA AACTNACAGG CTGGGAGACA AGACTCCCAT CGCAGGGACA TGCACAGCAG CAGCCACAGC
CCCGCGGACG GGGCAT

SEQ ID NO:244: (Length of Sequence = 220 Nucleotides)

CAAATGGCAG TTCTCGAGAA TCGACGAGGA ACTTAAATCT GGACTCAGGG TTTCAGTGG GTCTCCGACT CCCACCACCC
CGCCCCCTCG NCTGTCTCGC CGCCAGNGT GACCTCCAGC CGAAGGAATC TTCTTCGGAT GGGTGCACCT TGCCAANAGG
TGTGGCACCT GGNGGACTAG GAGGCGCCTC CANACTAAGG GCGCTCANTG CGGCGTTCTT

SEQ ID NO:245: (Length of Sequence = 239 Nucleotides)

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TTTATGCTCA TGTAACCTTC TTAATAGTGC CTGTCTGCT GGGTTTGTAG CTGTAAGAGT TCTGCAAACT GGCCCTATAA
 AAATATTGAT GCTGTCCATT AAAATGAATC TCTCTCTCTC ACTCAGTCTC TCTCTCTGTC TGTCTCTCTT TCTTCTCTCT
 CCTGCCATGT GTGTGTCTCT CTCTACTCCT CTGATTTTGN CCTCTCTCTC TATTCTGCTA CTCTCTCTCC TCTCCTCCG

SEQ ID NO:246: (Length of Sequence = 269 Nucleotides)

GGTTTCACCA GCGTTTAATG TGCTCTGATG TTGACCGTCC CTCTNAGTNT TCTGGGGAGG AGGGGGTGGG GCGGAGGGTC
 AGGAAAGCAG GCTCAGCTTC CAGGGTCAGG GAGTTGTGGG CCCAGAGGGG CTGTCCAGGT GGATGCACCC TGCCCCCTCC
 CTCGCCAGAC CCGAGGGTAG GGCAGAGGCA CCTCCTCGNC AGCCTNTGGG CTGCACCCAC AGGGAATNGA GGGGAGGGGC
 ACCATTACCA CTGGACCCAC CAAAGACCC

SEQ ID NO:247: (Length of Sequence = 297 Nucleotides)

CTATTCAAAG TTTACTGACC TCCCCAGCCA GGCAGGCCAA CCCTTCCGAG CAGGGGAAAT GTCCATCTAG CTGCCCTCTG
 CTGGGTGCA GCCTATGCCA TGAGAGGGTA CTGGAAGCAG GAGGGAGCCC TGGCTAGGGC AGGCCTTAAA CGCAAGGGAA
 GCTGAGCAGA GATCTGCACA CTCAACCCCA TTGATATTCT TCTCTCTCTC CAGTCATGGC CAGCGTGTG GTGACTAGAC
 CGGTGCCAAT AGTCCGGTTG CCATCTCGCA GGGTGAAAAG ATGGCCTTTC TCTTAAG

SEQ ID NO:248: (Length of Sequence = 281 Nucleotides)

ACAACAAGCA CACCAACTAT ACCATGGAGC ACATCCGCGT GGGCTGGGAG CAGCTGCTCA CCACCATGTC CCGCACCATC
 AACGAGGTGG AGAACCAGAT CCTCACCCGC GACGCCAAGG GCATCAGCCA GGAGCAGATG CAGGAGTTCC GGGCGTCCCT
 CAACCACTTC GACAAGGATC ATGGCGGGGC GCTGGGGCCC GAGGAGTTCA AGGCCTGCCT CATCAGCCTG GGCTACGACG
 TGGAGANCGA CCGGCAGGGT GAGGNOGAAG TTCAACCGCA T

SEQ ID NO:249: (Length of Sequence = 383 Nucleotides)

AGCGCATCCA CACCGGGGAG CGGCCCTACC CCTGCTCCTA CTGTGGCAGG AGCTTCCGCT ACAACAGAC ACTCAAGGNC
 CACCTCCGTT CAGGCCACAA TGGAGGCTGT GGGGGTGATA GTGACCCATC AGGTCAGCCA CCCAACCCAC CAGGTCCCCCT
 CATAACTGGG CTGAAACTTT CTGGCCTGGG TGTCAACACT GAAGGTCTAG AGACCAACCA GTGGTATTGG GGAAGGGAGT
 CGAGGGGGAG TTTTGTAAAT CCAAATCTCT GTGGNTTCAT GCTTTGTATA TGCTCACAGC AGGACACAAT AATCCAAGAG
 AAGGTCTGTG AGCCCCNATC CAACACCCAC AGTAATTATA ATCTTGGCAC ATCAATGGAA TTT

SEQ ID NO:250: (Length of Sequence = 397 Nucleotides)

GTATCCTACG TTACAACAAT AATATCATGG GAGAAATAGA AATAGCCTAG TTTGCTTCCA ATAGAAACTG CTTTAAACAT
 GGGCTGTATA TAAAAATATT AAAGAGAAAC AAAACTGTAC ATTTCTCAT TGCTCCGCTA CAGACAACCC ATGTCATAAC
 CTTGTGCAA ATATTTTTCT CCTATAGCAG TAAGTACAGC ATTAGAAGGT GATTAGAGAG TCTGTTGATG AAACACAAAT
 GTATGTTTTT ATTGATTTTT ACTTTAGAAC ACTACAGAGT TCCTGGGACC GGGGTGAANG GCATTTAGCT GGGGTGGTTT
 GTGTGGGGGT TAAATACCTT CCCACTTGCA AGTGACTTGC CTGTNCCCGC TGCGGGAATC CTGTNTCTTG GGTGGGA

SEQ ID NO:251: (Length of Sequence = 276 Nucleotides)

GGCCATAAAA GAAAGAGCCT GTTACCTATC CATAAACCCC CAAAAGGATG AGACGCTAGA GACAGAGAAA GCTCAGTACT
 ACCTGCCTGA TGGCAGCACC ATTGAGATTG GTCTNCCCGC ATTCCGGGNC CCTGAGTTGC TCTTCAGGNC NGATTTGATT
 GGAGAGNGA GTNAAGGCAT CCACGAGGTC CTGGTGTTCG CCATTCAGAA GTCANGACAT GGACCTGCGG CGCAGCCTTT
 TCTCTAACAT TGTCTCTCA GGGAGGGNTC TACCCT

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SEQ ID NO:252: (Length of Sequence = 314 Nucleotides)

CCTGAACAGT CTGTTTCATT TGACTGTTG GGGGTCCTCC AGTTTAAGCA AGATATTTAA GCCTTATTTT TCTTGGCATG
 CTTGGATTCC CCAGTAAAAA AACTCCTGC CTGGGCTGA CAATCAAAGT TCTGGGAAGT AATATGGATA AGCAAGCTGG
 AAATGGAGAA GGCTATTCAC TGTCCTGGG TOCTACTGTT TTCTGGNTGG GAACIGCTTT TOCATTAGGC CTGGTGTGCC
 CTGGAAGGGA NGAGCCTCTT GCAGAGACTA CAATCTTGA TGGGTCTTT GCCAAGTTG AAGGTAGGAA CCA

SEQ ID NO:253: (Length of Sequence = 293 Nucleotides)

GAACACTCTG CTCAGCCAA GTGGTGAGG GCAGCTGTC CTAAACAGG CAAAGGCAGC AAGCCACAGT CCCACAAGCC
 TCAGCCTACC CGTAACTGC CACCCAAGAA GGACATGAAG GAACAGGAGA AAGGAGAAGG GAGTGATAGT AAGGAGAGTC
 CAAAAACCA ATCAGATGAA TCAGGGGAGG AAAAGAATGG AGATGAGGAT TGCCAGCGAG GCGGGCAGTA GAAGAAAGGA
 AACAANCACA AGTGGGTTC ATTACAAATA GACATGAAGC CTGAAGTGCC CAG

SEQ ID NO:254: (Length of Sequence = 413 Nucleotides)

CTTTTCTTA ATATATTAAT ATTTACCAAG GCAAGACAGT GATTTATGGA CATTTAAATT AGTTTAGCTT TGTTCGTCTG
 TTCTAAAACA TTGTGTACTG TCTGATAGAC TTTTAAAAA CAGTGCTTTT CCAGGATGAT TTATGATATG CAGTATTGTT
 TATAGATGCC CATGGCTTAA CCTTGAAAAG TCAATTAAAT GACACAATTA AGAGAGATAT GAATAGTGGT AGAAAAAGCA
 TGTACTCTGG ATAAGTGGG GTAAATCTAG TATTTGTAT TCTGTCACT AATATTGTCA NTAGTATTTT TTAGAAGGTT
 TAATTTTTT ATGGGTATA AATTCATGTC ACTCTCTGC AATGGGTACC ATCAGTGGGA ATGCGGAAT TATCCATGCT
 TTGGGGGTTA AAA

SEQ ID NO:255: (Length of Sequence = 376 Nucleotides)

GGGTCCAGGG GAGAATCAAT ATATCTAGTA TAGTTTATAT TTGTACCTTC TCTCCTAAG AGTTACAGTG AGTGACTCTA
 CTCCTCAAT GGAGCACCTC TCTCCAGGAG AGTAAGAAGA TCACATAAAT AGAAAGTGAG CTTTGGACTC TAACAGACAT
 AGGTCATAT TCAACTCTGC TACTTAATAT CCATATTGGT TTGAGTTATT TAACCTTGAC AATCCACACT GTAAATGGG
 TAAATAATA ATACCTCCT CTCAGAAGTG TTACAAAGTT TATATGAAAT AATGTGCTTA AAAAGCTGGG TACATAGTAG
 GAGCTTAGTC ATTGTTTATT TTCTCCTCA TACCACATA TGNITCATT CTACTG

SEQ ID NO:256: (Length of Sequence = 241 Nucleotides)

GTAGAGATGG GCTCACTATK TTGCCAGGC TGGTCTGAA CTCCTGAGGT AGGAGGATCG CTTGAGCCTG GGAGACAGAG
 GTTGCACTGA GCCGAGATCA CGCCACTGCA CTCCTGCCTG GGTGACACAG TGAGACTCTG TCTTAAACAA AACAAAACAA
 AAAAAGGCCA GGCGAGGGG CTCACACCTG GTAATCCAG CACTTTGGGA GGCCAAGGTG GGTGGATCAC CTGAGGTCAG
 G

SEQ ID NO:257: (Length of Sequence = 406 Nucleotides)

CAAGGGTGTG CTTGCCAGA TCACGTATA TGATTGCTT GTGGGACGCT CCGTGGATGA GGCTCTGCGG CTGGTCCGAT
 TAAGAAAACC AAGAGAGGCC GGGCAGGTG ACTCAGCCT GTAATCCAG CACTTTGGGA GGCGAGGTG GCGGATCATG
 AGGTCAGGAG ATTGAGACCA TCTGGCTAA CACAGTGAAA CCCGCTCTCT ACTAAAAATA CAAAAAATT AGCTGGGCAT
 GGTGGCAGC GATTGTAGTC CCAGCTACTA GAGAGGCTAA GGCAGGTGAA TCGCTGAAT CCAGGAGGTG GGGGTTTCAA
 TGAGNCCGAG ATCGTACCAC TGCACTCCAG CTTGGGGCAA CAGAGTANGA CTTCTAACC CCAACCAAC CCNCCAACCC
 CCCGCC

SEQ ID NO:258: (Length of Sequence = 157 Nucleotides)

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GAAAAGAAGG AAGGAAAGAG GGGAGGGAGG GAGGAAAGGA GAGAGGGAGG GAAAGAAGGA GAAAATGCTG GAGCAAAGGA
GGTTGGTTAC ATGATTTCTC TAATGGCAAT GAGCTGCTTT CTGGATGAAA TACAGAATCA GAGCGAGACT CCGTCTC

SEQ ID NO:259: (Length of Sequence = 361 Nucleotides)

AAGCAGATAT AAATGGGACC ACTGTGAATC AAAGGGGAAA AATTCCAGGA AAAAAAATT CCAATAGCTT CACAGTTTAA
CTGAGGTTTT GGAAAACTT AAGTGAATTC AGCTGATGTT TGAAATATCT GTCTACATTT AATTAGATGT GTTGTATTAA
CCAAGGAGGC ACAAATATGT AGTTCTGTAG ATTTTAATAC TAACTTTTC AGTAAGAAAA ATAATACCAG GTGATTTCAA
AAAGGGCAGT GATCTATAAA CACTCAAAT GCATCTTTGA ACAGGGGAGC AGAAATAGCT AATTTAATGA AAACAAACCT
TAAGCACTT ACTTGGCTTC TAATAAGGCA TCCCAAGAAA A

SEQ ID NO:260: (Length of Sequence = 349 Nucleotides)

CAATACATGT ATACAGTGTA CACTGATCAA ATAAGAGTAA TTAGCATATT TATCACCTCA TTCTTTTGT GGIGAGAACA
TTTAAAATCC TTCTTTTGT CTATTTTGAA ATATACAGTA CATTGCTATT AAGTATAGTC ATCTGGCTGT GCAATAAAAC
ACCAGNACTT ACCCTCCTG TCTGTGACTT TGTACCTGT TCACCACCCC TCCAATCCTC TAGTAACTAC CATTCTACTC
TCTACTTCTA TGAGCCTGAC TTTTAAAT TCCACATGTA AGTGAGATTA CATGGTATTA TTCTCTNGT GGCTGGCTTA
TTCACTTTA ACATAATGTC CTCTAAATT

SEQ ID NO:261: (Length of Sequence = 415 Nucleotides)

GGAAGATGAG GATCTAGGTG TGAGCGTGCA GAGCCTGAG GCTGGGCAGG CAGGGAGCTC TGCCTGCACA ATGATGTAGC
CATGTGTGGC CACACCAGCA CTGGGCAGCA CCTCTGGGA GGGGGCAGG GCAAGGACAA CTGGAGAGAC AAAGCCAGAT
GGGGCCACGT CCTTAGAGT GTGTGTGCAC GCACATGTGT GTGTGTGTGT GTGTAATACG CAGGGCAGAA ACACACCATG
TAGGTGAGGC AGGACAGAAA CACATCATGT AGGCCAGGCG TGGTGGCTCA GGCCTGTAAT GCCAGCACTT AGGAGGCCA
AAGTGGGCGG ATCACCTGAG GTCAGGAGTT CGAGACCAGC CTGGCCAACA TTGCAAAACC TCATCTCTAC TAAAATTCTA
AAATTAGCCA GGCCT

SEQ ID NO:262: (Length of Sequence = 382 Nucleotides)

GGCATGGGGT CTGGCTTTAA TGTGTAAGT ACGTGGGTCA CTGAACTGT TCAGGCTGAT CTTGAACTCC TAGGCTCAAG
TGATCCTGCT GCCTTGGCT CCCAAAGTGC TGGAAATTACA GGAATGAGTC ACAGCACCCA GCGGCTGTG TTTTGTTTT
TGTTTTTTAC CCCGACAGT NCTCAGTCAG TCGTTAGCTG GAGTGAAGTG GCGTAACACA GCTCACTGCA GCCTTGATCT
CCTGGGCTCA AGTGATCCTT CCATTTCTTC CTTCAGAGT AACTGGTACT GCAGGCCAC GGCACCACAC ATGGCTAATT
TTTAAATTTC GTAGAGACGA GGTCTTGCCA TGTGTGCTCA GGCTCCAGCT GTTGTATTCT TT

SEQ ID NO:263: (Length of Sequence = 447 Nucleotides)

TGTATCAACT CAGAAATTC AGAGAGCTCT TCCTGGCTGA AAAGATGTCC AAGGATCATC TCCGGAATGG AAGAGGTGAG
GCCTGTTAGC TTGTGGGCTG CCCAATCCAT CCAACCTTG CATTGGGAT CAATGTTGAT GAGGACAAGA CCTTCAACAG
TGTCCGGGTG GTTAAGAGCA TATCTCGCCA GGATGTAGGC TCCAGCTCCA ACACCAACTC CAATTATTGT AGAGAAATTT
AGGTACTGCA GGACGCAAGG GATCATGTCT GCAAGCTGGT CCAGAGATGG GTACTGATAT CCCAAGGGA ACACAGGGGC
TCCCTCTTCC ATTCCAGGG CATCCACATG GACCGCACA AAGTCTGAA TGATTCTCTG CATGTCTCG AACTKGAACA
GTGGCTGGAG GAAAGATTTA TAGTTGAGTC CACATCGGT AGGTAAG

SEQ ID NO:264: (Length of Sequence = 317 Nucleotides)

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TTTTCGCTGT CAACAGACAG TTTATTCTAT ATACAAACAC AATTTTGTAC ACTGCAATTA AATAGAATGG AATGAGOGCT
 CCTCCGCAIT CCTCCCCGAG TGA CTGGTTT GGCCGCCGCG CACTCCATCC COGAGTGGGA CTGGACCACG GCCTGGNTG
 CTGCCACTGA TGTGGNGCC TGCACCCCAC GTCCCTATGC COGAGGCGCA ANTCTGCTCT CCGGGGGACC CCAAGNCTGG
 NGCACACGCG GGGAGGGCGG GGCCATGGAG AAGGCACTGC AGGGAGCACC AGGCAGAGCC GTGTTGAGGC CGGCCGG

SEQ ID NO:265: (Length of Sequence = 270 Nucleotides)

GCAGAGCAGG TGGAGTGAT CAGGAACCAT AGTTGACAGT TCCAATCAGT AGCTTAAGAA AAAACCGTGT TTGTCTCTTC
 TGGAAATGGTT AGAAGTGAGG GAGTTTGCCG CGTCTGTCT GTAGAGTCTC ATAGTTGGAC TTCTAGCAT ATATGTGTCC
 ATTTCTTTAT GCTGTAAAAG CAAGTCTGC AACCAAATC CCATCAGCCC AATCCCTGAT CCTGATCCC TTCCACCTGC
 TCTGCTGATG ACCCCCCCAG CTTCACCTCT

SEQ ID NO:266: (Length of Sequence = 297 Nucleotides)

ATGAGGCGAG GCCTGOGAAG TGGCTGGCAT GCAGCAGGTG CTAATGAGTG TTGCAAAGGT GATGTCAOGC AGGCAGCTTC
 CGTGGCCAG AGAAACATTG CAGAGAAGGG ATAAGTAGGG CTAGTGACT TTGACGGGTC AATGGAAGAA TGACCCAAAG
 AAGGCTTCAA GGCCAGGCTT GCAGTTCTCC ACCACAAAGG CCTCACTGA TAGCACCAC TCCCCACAC TCAGCTTTNG
 GGCTAGGTC TGGGTCACCC AGCTAGAAGC CACAGGACCC TGAGGCGTCC GAGGGGT

SEQ ID NO:267: (Length of Sequence = 387 Nucleotides)

CTGTTTTCA TCATGAGCTC GATCAGATGT CTCTGATCT TCAGACTGGT GGTGTCTTAT AATGTCTGT GCAGCAITTC
 TTGAGCTTC CAGGATTCT GTCTGTCTC TCTGTTATC TACAGAAGAA ACTTCTCTCT TGAGTTCTTG TTCTCTGTAG
 CGCTTGAAC TCTCTTCTT TTCTGGTTA CGATCTCTCT CTTCCTATCT ACCCTGTCTG TCTTCTGTGA GGTGCGAGGG
 ACTAAGAGAA CGAGATTCTT GAGGTCGTAC AACTTGGCTC AAGAGTCTGT GTTTTTTCAT TTNINATCAT CTCCACTGTT
 GTAGGCATCA CTGTCCGAG AATGTTACG CCGGCGCTTT CCGGGGACTG TCTAGGGCTG GGACTCC

SEQ ID NO:268: (Length of Sequence = 318 Nucleotides)

CCTGAAGGTT ACCTCTTTGG AGAGAACATG GATCTGAACT TCCTGGGCAG CGCCCCGTC CAGTTTCCCT AGTCACTCC
 TGCCCCCAC GAGCCCGTGA AGACGCTGCG GAGCTGGTGA ACATCCGCAA AGACTCCCTG CGGCTGGTGA GGTACAAAGA
 CGATGCCGAC AGCCCCACCG AGGACGGCGA CAAGCCCCGG GTGCTCTACA GCCTGGAGTT CACCTTCGAC GCGATGCCC
 GCGTGGCCAT CACCATCTAC TTCCAGGCAT CGGAGGAGTT CCTGAACGGC AGGGCAGTAT ACAGCCCCAA GAGCCCCCT

SEQ ID NO:269: (Length of Sequence = 422 Nucleotides)

ACATGTCTAT TCAGGTCTTT TGCCCAITTT GAAATAGCAT TGCTTGTTCT TTGCTGGAT ATTAACCCCT TGTAGGTGC
 ACAGTTTGA AGTTACCTTT TCTCATCTA TAGGTTATCT CCTCACTCTT GATTGTTCT GTTGCTGTGC AGTAGCTTTT
 AAGTTTGGTG TAATACCAIT GTGTTTCTC TGCTGCCCTT TTAAGTTTCA CTGGGTCAA AGTTTAAAT TTGTGAATTC
 CTATATTTT AGGCAATTC TCCTGCCACT GTTGAATTA TGCTCAATC TATGCAGTAG AATATTAGTG TGAAATGCTT
 CTGTACCAAT GGAGATGATG CTGGATGGTC TCTATCATAA ACCCATACCT CATCAACACA AACTGCAATT ACACAAGGGC
 TCTATATCAT GGATCTCCAT TT

SEQ ID NO:270: (Length of Sequence = 376 Nucleotides)

GAAGAAGAGC CCAGACCTAG GGGAGTATGA TCCACTTACC CAGGCTGACA GTGATGAGAG CGAAGACGAT CTGGTGCTTA
 ACCTGCAGAA GAATGGAGGG GTCAAAAATG GGAAGAGTCC TTTGGGAGAA GCGCCAGAAC CCGACTCAGA TGCTGAGGTT
 GCAGAGGCTG CAAAGCACAT CTTCAGAAAG TCACCACGGA GGGCTACCCC TCAGAACCCC TTNGGGGCTT GGAACAGAAG

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GCGGCTCTCT CCTGGTGTCT ATATGTGCGC ACGTCTGTCT TCCTGCTTGA CTTTGGGGAT CTCGATGATC CTGGTGCTCC
TGTGTGCTTT CCTGATCCCC TGTCTCCCA GAGATCTTGA CAGAACTGGA GCCGCA

SEQ ID NO:271: (Length of Sequence = 346 Nucleotides)

TGTTACAGTT CCTTTCTTT GTCCTTCTTT TTCTATCTT TATCTATACT TCGACTCTC TCCTTTTTC TCTCTTGTTC
TTTAGCCTCA CCTTATGCT TATGACTGTA CCCACTAAGA TTCCACGTT GATCATCAAT TTTACGNTA TCTCGACTCC
TACTGCGACT GGCACGATTG GTTCGTCTAT CCTTGAGCG ACTTCTACGA ATGCTTATGA AAAAGAATCA AGTTGGNCAC
CAAAATGTTT ATAGCAGTAG GAAATTTCTT TTAGAGACTT CTGATGGGAA ATTTGAAGTG TATGTTGCTA TCAGATCAAG
TGCAGGAGAG GTATAAGGCT ACTGGA

SEQ ID NO:272: (Length of Sequence = 394 Nucleotides)

GTGTTGTGTT TTGAGTCGGA GTCTCGCACT GTTCCTGGG CTGGAGTGCA ATGGTGCAAT CTGGGCTCAC TGTAACCTCC
GCCTCCACAG TTCAAGCCAT TCTCTTGCTT CAGCCTCTTA GTAGCTGGGA TTACAGGCAC CTGCCAGCAC ACCTGGCTAA
TTTTTTATAT TTINAGTACA GACAGGGTTT CACTATGTTG GCCAGGCTGG NCTTGAATC CTGACCTTGT GATCTGCCCA
CCTCAGCCTN CCAAAGTTT TCAGAAATTT TTAAGGAAAC ACTTTTAAAC CTTAAGGCTT TCTTTCAAAC TCAGATCCCC
TTACACAATT GATCAGACGT GGCAAAGTTT TGCTTCAAAG TTTTGGACT GGGTTTCAC TTAGGCTTA CTGA

SEQ ID NO:273: (Length of Sequence = 259 Nucleotides)

CAACCTGTAC CCAGGCTGCG AGAACGTRAG TTTRAGGAGC CGCAGCATGA TGTTCGAGCC GGGTCTTACC AAAGRATGC
TGGAGGTGTT TKTGGCCCCG ACCCACCACC CGCACTGCTC GGCGATGAC CAGTCCACCA AGGSCATCGA CATCCAGAAC
GCCTATTTRA ATGGAGTTGG CGATTTCAGC GTGTGGGAGT TCTCTGGAAA TCTGTGTAT TTCTGTGTW ATRACTATTT
TGCTGCAAAT AATCCACG

SEQ ID NO:274: (Length of Sequence = 348 Nucleotides)

TCCCAGTTGT CCCGATTGTA ACTCAAAGGG TGAATATCA AGGTGTTTTT TTTCATTCCA TGTGCCAGT TAATCTTGCT
TTCTTTGTTT GGCTGGGATA GAGGGGTCAA GTTATTAAAT TCTTCACACC TACCCTCCTT TTTTCCCTA TCACTGAAGC
TTTTTAGTGC ATTAGTGGG AGGAGGGTGG GGAGACATAA CCACTGCTTC CATTTAATGG GGTGCACCTG TCCATAGGC
GTAGTATCCG GACAGAGCAC GTTTCAGAA GGGGGACTCT TCTTCCAGT AGCTGAAAGG GGAAGACCT GACGTACTCT
GGGTTAGGTT AGGACTTGCC CTCGTGGT

SEQ ID NO:275: (Length of Sequence = 396 Nucleotides)

GTITGGTGAA TTGGTCTGT GATAAAATG GAGTTCAAGA AACAAACAGG AACTACAAG TGCCCTTCG CCCCAGGTC
ACCCGAGTGG CAGGGCAGTG ACCGCTGCTC TCAGGCTGCC CAGTGTGGAC CTGCCTGTCG GAATGCTCCT CCTCCAGTC
CCTCGCTCC TGTGTCCAG CCACATGCAC CTTCCTCTA CTTCTGGGAT CCTGCACCA GGTCTGCCCC TGTCTTCTCA
GGGCTGCTCC TTTTGGNCCA CAGGACCTCA GCTGGAATGT TGCTCTCTCC AAGAGGCCTT CTGACTATT CAGCTCACAG
TGGCCACCA GCCACAATCT GCCATGTGCT TTGGGGGATT GTCTGTTAAC TGGCAACATA CTGGCAGCCC ATAAT

SEQ ID NO:276: (Length of Sequence = 381 Nucleotides)

GGTGTGGGG AGGCTGCGCA AGGGGGCGAG CCCGGGCAGC CGGCGCAACC CCCGNCAG CCGCACCAC CGCGCCCCA
GCAGCAGCAC AAGGAAGAGA TGGCGGCCGA GGCTGGGGAA GCGGTGGCGT CCCCATGGA CGACGGGTTT NTGAGCCTGG
ACTCGCCCTC CTATGTCCTG TACAGGGACA GAGCAGAATG GGCTGATATA GATCCGGTGC CGCAGAATGA TGGCCCCAAT

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CCCGTGGTCC AGATCAITTA TAGTGACAAA TTTTAGAGAT GTTTATGATT ACTTCOGAGC TGGTCTGCA GCGTTGATGA
AAGAAGTGAA CGAGCTTTTA AGTTAACCCG GGATTGCTAT TNAGTTAAAT GCAAGCCAAT T

SEQ ID NO:277: (Length of Sequence = 206 Nucleotides)

TTAATACGAC AGGGCTGGCG CCOGAGTAAT TCAAGCCCTT CGGAAGTGTG ACCGGCTGCC AGGCCTCGGA TGCAATCCTG
GAGGCGGGAG ATTGGGCTIN AAGACTGGCT CGAGCCGCCC AGGGGCTCCA TGGGAGACTA ACGCGGAAGT YCCAGCCGTC
CCAGTGCCGT GACGTCCCCC CTTGGTGGGG CCTGCACCCG ACTACT

SEQ ID NO:278: (Length of Sequence = 260 Nucleotides)

ACCTGTAATC CCNGCACTTT GGGAGGCTGA GGTGGGCAGA TCACGAGGTC AGGAGATAGA GACCATCCTG GCTAACACGG
TGAAACCCCA TCTCTACTAG AAAAATACAA AAAATTAGCC GGGCATGGTG GCGGGCGCCT GTAGTCCCAG CTACTCGGGA
GGCTGAGGCA GGAGAATGGC GGGAAACCCG GAGGCGGANT TGCAGTGAGC TGAGATGCGC CCGTCTCTCC AGCCTGGGCA
ATAGAGTGGG ACTCCATCTC

SEQ ID NO:279: (Length of Sequence = 308 Nucleotides)

GTGTCTGGGC TCAGGGTGG CCAGCTTGCA GAGGAGCAAG CTAGTAGAAA TATTGCAGGG TTCCCAAAAC CAGGTCAAGC
AAGATGCCAT GTCACCCCTG AGCATGCCGT TCTTCCAGG GGTGTACCTC TTGGCTGGCA AAGCCAAGGC CAGTGGGNAC
TTGTATAAAT CACATGGGTA TGTTCTTGGT TCAGTGATCT TGGAGTGATG ATGGTAACIN ATGAACAGAG AACTTTYYAG
AACTTKGGTC CTGTCTTCTT CCTGAACCT AGACAAGTTT CACCCCTCCT CCTGTACCCA ACCCCATT

SEQ ID NO:280: (Length of Sequence = 402 Nucleotides)

ATTTTAGCAG CTTTCTTGAA ATTTAAAATA TATGTGTAAG TATCTCATTT ATATGCATTT CTAGTTTCTT TATACAACAG
AATAACTTCT TTTACATCAA ATTTCTGAAT TTGACTAAAT TTAGAAATAA TGGAATCTCA TCCATTAAAT ATAGTCATAG
AAGGAAGGAA ATATGAAAAT TAGGATTTCA GATGTTTGAA CATAAAGAT AATTTTAAAC ATTGTGAGTA ATCTATTTCT
TTTTTTTTTC GAGACGGAGT TTTGCTCTGT CACCCAGGCT GGAGTGAGT GCGCGGTCT TGGCTTACTG CACCCCTCTG
CTCCAGTTC AAGTGGATTG TCCTGCCTCG NCCTCTGAG TAGCTGGGGT TACAGGGGCA TGCCAACATG CCGGGGCTAA
TT

SEQ ID NO:281: (Length of Sequence = 313 Nucleotides)

GAGAATCCGT CTTAAAAAGA AAAAAAGAAA ATTTATAGAGG GAGATGAGGT GGGACAGAGT CTGGCAGTTC ATCAGGGGGA
CTGAGAAGGT GGCATTTGGA GGAGAGGAGG CAGTGAGCTG TGCAGTGTCC AGGCAGCCAC CCTTCCAGC GGCCACCATG
ACGGTGTCTT CATTTGCTTTA ACCATTAGTA ATCAITTCATT CATTTCATCA TTTATCCGAC GTCAGCTGGA GGNCTGCCC
GNGGGGCATG CGCTTAGATT TNGGAGGCCT TCCGGGATGC TTGCGCTCCA ACGGGGAAG GCGGACTTGG GCT

SEQ ID NO:282: (Length of Sequence = 217 Nucleotides)

TGACCTCAGT TGATCCACCC ACCTTGGCCT CCCAAGTGC TAGTATTATG GCGTGAACC ACCATGNCCA GCGAAAAGC
TTTTGAGGGG CTGACTTCAA ATCCATGTAG GGAAGTAAAA TGGANGGAAA TTGGGGTGCA TTTTCTAAGG ACCTTTCTAA
CANATGGCTA TAATNTAAGG GGTTTAGGGT CCTTTTTTTT TTTTCAGGGA TACATT

SEQ ID NO:283: (Length of Sequence = 327 Nucleotides)

TAGAGAGCGC TTTACTCCTG GTCCCATGGC GTAAAGATGT GGCTGGGCCT GACAAGGCTC AGCCTCCAGT CTTAAGATGG
GCACAGAAGG GCAAGAAGTA AGATGACGAG TCCAGAATT AGGACAAGCC ATGAGCCAAG GCCTGGTCTG AGCAAGGGCA

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GCCCCCTGTC CCAGACACAG GCACCCCCAA TCTCACTTTG GACAGAGCCA ACGTGGGGGG ATCCTCCCGG GCCTGGGCCT
GTCAAGTCTG CCTGCAGGAC CCTGCCATTG TGCTCAAATC ACAACCATTT TTTGCTTCCA ACATTTTAGG GTGCTTGTGC
AGTGAGT

SEQ ID NO:284: (Length of Sequence = 340 Nucleotides)

CTTTGGAAAT GTAAATTGTT ACAAACTTAC TTTAGAGCAA ATTTAGTCAT CCTTCAAAAA TTAAATGTA TACTTATTTT
CTAAGAATTC GTTTGGCTCA CACAATTGTG AAAAGATAGA TGTACACCAG TGTTCATTAC AACAAATTATG CAACAAATCT
ATTATGTGCC AGACATTATT CGGAACCTG GGAATACATA AGTGAACAAA GCAGATTCCT GATCTCAGGA CCTGGGGTCA
GGGGTCAGGA GAAGCCAAAA AACACGCTNG AGAAATACTT TATGCAGTGT GGGGGGAGTG CTACCAGCAG AGCAGGGGAT
GGNGATGTA AATCTTGTGT

SEQ ID NO:285: (Length of Sequence = 335 Nucleotides)

GACATTACAG GAGGTGGGTT CGACCTCCGG TTCCCCCACC ATGACAATGA GCTGGCACAG TCGGAGGCCT ACTTTGAAAA
CGACTGCTGG GTGAGTACT TCTGCACAC AGGCCACCTG ACCATTGCAG GCTGCAAAAT GTCAAAGTCA CTAAAAAACT
TCATCACCAT TAAAGATGCC TTGAAAAAGC ACTCAGCAG GCAGTTGCGG CTGGCCTTCC TCATGCCTC GTGGAAGGAC
ACCTGGACT ACTCCAGCAA CACCATGGAG TCAGCGCTC AATATGAGAA GTTCTTGAAT GAGTTTTTCT TTAAATGTA
AAGATATCCT TCGCG

SEQ ID NO:286: (Length of Sequence = 399 Nucleotides)

GCACAATTAT TAAAAAGAGG CCACITAAAT TCACTCTCC ATGGATACAG TGTCTGTGGC AATGTTTAAAT TAGAGATTAA
AATTGAGGAA TTGAATAATT GAGGTGCTA ATGAATTTGA AACTCAGCA AAGCAAGGAG AGCTGAGCGT TTTTCCGACT
TAGCTTTTCT TTCTTAACC CTTTCTCAT TTCTACTAT TATCACAINT CTGGCCTTGA CTGCTGAGTT TATTACTACC
CATAACCTG GCCTAAGTGG AAACAAAAA GCTGTAGCCT CTTTGTGTAG CTCTGGAGA CATTTGGTCT ATTGGATTTA
TGACATGTTT AGAAGCTTGC AGTTGCAGGA GGCTGACAAT GATGAAAATG AGATATGNTG GGCCACCACG CTTTCTGT

SEQ ID NO:287: (Length of Sequence = 294 Nucleotides)

TTCCAGTTGA ATTCACCACT GGACAAAATG AGGAAAACAG GTGAACAAGC TTTTCTGTA TTTACATACA AAGTCAGATC
AGTTATGGGA CAATAGTATT GAATAGATTT CAGCTTTATG CTGGAGTAAC TGGCATGTGA GCAAACTGTG TTGGCGTGGG
GGTGGAGGGG TGAGGTGGGC GCTAAGCTTT TTTTAAGATT TTNCAGGTAC CCTCACTAA AGGCACCGAA GCTTAAAGTA
GGACAACCAT GGAGCCTTCC TGTGGCAGGA GAGACAACAA AGCGCTATTA TCCT

SEQ ID NO:288: (Length of Sequence = 391 Nucleotides)

TCTACAGATG AGGAAAGCAA GCCTCAAGCA AGGGGGGCCT GATCCTTTCC CTGTTCCCTG TGTATTCCCT GTCTGTGGCA
AAGCCCATG CCTTGATTCT CTCTCTTTA CTTTCATGTT GAGAAGTAGT TTCTTTCTGC AGTTTATTTA ATTTACTGGC
AAAATGACGT ATTTTTTTTT CAGCAATGTT TCAGCTAGAT ATTTGCTTTA TGCATGTAAT GTCAATGAAG TACTCATAAG
TTTTCAAGAA ATGACTGATA TAAATCATGT GTTCCACTAC ATAGTCTAAA TATTTAGTAT TTGGTCATCT ATTTTAATAT
GTTCAAATTC TGTAAACAA GNCATAGTCA CTATGTGAAG ATAAAAATAG NCAAGTTC ATTATGACTT T

SEQ ID NO:289: (Length of Sequence = 198 Nucleotides)

CTTATATTCT ACTTTATTTG GTAAACTCA GAACTAACA ATTCACATCC TCCCACCTTC TTCTTTCCGA AGAAGGCAGT
TTGCAGAGAC AAAAGGGCTG TGGCGTGGGG ATCATCCACC ATCTCCAGGT TTTACACCCA GGCTACCCAT GGCTTGGCAG
TCAGGCTCT AGGCTGATTG CTCTCAGAGG CAATAGAA

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SEQ ID NO:290: (Length of Sequence = 353 Nucleotides)

GGTTTTCATC TCGGTTTAC AAAAGTCTA CTATTTATTT ATTTTAACTT TAATTTAAAT ATCACCTACC TTAGGTAGAA
 GTTTTCCTTT GTGTAATATA ATATAAAACC GACATTTCCT GGGGGCATAA TAGTAAAGAT GTTAACATTT TTGGTTCCTT
 TTGGATGCT GTATTGTGC TTCTTCGAA AGTGATGTGT GCCAAGATGG CTCATGTAAAC CCAGTTTGA CTAGGCTATT
 GATATTCTGT CTGGTTAATT TATTGAACTG GCTTAAAGCT ATACATATTT CCTTTAGNTGTAA GATATTCTAG
 ATATATTGGT CTACTGATTC ATAATATCAC TGG

SEQ ID NO:291: (Length of Sequence = 163 Nucleotides)

CCTGGTAGGC CTGCTACACA GTCTTGCAAC GNCCCTCGTG CTTGGGCTTC TGCGGTGAGG CAGGGGAGTC TGCTTGTCTT
 AGATGTTGGT GGTGCAGTCC CAGGACCAAG CTTAAGGAGA GGAGAGCATC TGCTCTGAGA CGGATGGAAG GAGAGAGGTT
 GAG

SEQ ID NO:292: (Length of Sequence = 397 Nucleotides)

ACGGGAAGGT GAGTATGTNA GTATGINTGC CAGACAATGG TGTTCCTATG TCAATGGAGG TTTCTCAGAG AGAGGTGATC
 TGGCTGGAGA AAGCTTAATC TGGTGGCAAT GGACAGGTGA CTTTAAGAAG TGGGGAACGA GGAAGGAGG CCAGTTTGAA
 AATNATAACA AGGGTCCAGA CTCAGTGATG CAGCAGTGAC CATGAGAACA GAGCAGCTGC AGGTAGAAGA TGGAGACAGA
 ACTNGGGAGA TCTGGTGGAG GTAAGCCGCG TGGAAAGATG ATGTCAGGTT TATACCTAGA GGACACATGA TCCATTACAA
 AAGCCAGGGG NAACCTAAAG AGAAAACACT TAGAATTTIN GGAGANAGG CTAGGGCTGG GCCTTAGACA TGGGCTG

SEQ ID NO:293: (Length of Sequence = 360 Nucleotides)

GAGGTAAAAAT TTACATACAG TGAAATCCAA ATCTTAAGTG TACCACTAGA TAAATTTTGA TAAATGCATT ATGCCTGGTC
 TTCACACACC CTTTTCATA TATAGAAAAT NTCCAGATAA TTTATTTTGT TGTTTTTTTC ACACACTAAG TTCTAGACTT
 TTCCAGGTCC GAGGGAACATA TTAGGGGGGA AAGTACTTGT NATAGTAAAA AAGATTTTGT GTGTGTTTGT TTTTAAGGTG
 CAGAAACACA TCGCAGATTT AAGGTCGCA ATCTCTGCTT TTGTATTG TTCCAGTTTT GATCTCAGTG ACATTACAAG
 CAAGCAGAAA CACTCAGACA TGAAATGGCC CAG

SEQ ID NO:294: (Length of Sequence = 321 Nucleotides)

TTTTTTTCAG GNTTCAACCG TTTTATGGG AGGTTTGT TCTGTGAAA TACTACTAGAG GGTGGGGAAG GGGACACATT
 CACTTTGCAA GATAAGGGTT TCCCACCACT AAAGGAAAGG CATGGGGCAG GGCACACTGG GGTTTGGGTC CGTTTTCCCA
 CCTCCTCTG CTGGCTCAC TTTCTTTTC TCTCAGCAAG TACCACAGAA CACAAAGACA AGAAACAAA CAGCAAATCA
 ACCTCCAACG GGGCCATGCC AAGCCTTCCC CACTCCCCCA GGCTGGGCAA GGGCTGGGAG GGGCTGGGG CAGCTCACTC
 G

SEQ ID NO:295: (Length of Sequence = 165 Nucleotides)

GACACACAGC GCCTCCGGCC CCGCACAGGG GGCATGTCCA GAGGTGCTGT GTGTACCAA CTGGTCTTCT AATTGGAAG
 GAGTTGGAAA GGCCTTTTGT TTGATGAAA GTTGGAAACA GTGGCACATA TCTNAGAGGG AGGAACGAGG CAGCGTGGTG
 AAGCG

SEQ ID NO:296: (Length of Sequence = 315 Nucleotides)

CGAATACAGG TAGTGCCAG CTGGTTGGC TGGCCAGGA AAATNCTGCT GTGTCAAATA CTGCTGGCCA GGATGAAGCC
 ACAGCTAAGG CTGTGTGGA GCCCATTCAG AGCACCAGTC TAATTGGGAC TTAAACCAGG ACATCTGACA GTGAGGTTCC

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AGATGTGGAA TCTCGTGAAG ACTTAATTAA AAATCACTAC ATGGCAAGNA TAGTGGAAC TACGTCTCAG TTGCAGCTGG
CTGACAGTAA GTCAGTGCAT TTTTATGCCG AGTGCCGAGC ACTGTCTAAA AGACTNGCCT TGGCTGNAAA GTCTA

SEQ ID NO:297: (Length of Sequence = 244 Nucleotides)

AGTACGGTIN NCGCTNAAGC TTGATNATCG RATGCCAAT CTNCATATTT GIGTTAGAAT CATTGTGTTT TGIGTCTTCA
TGTTTCTATA AGATAGGACC AATATTCTTT ATTGGGCTTT GATTTTATTT TGTAACITAA ATGTATTAA GCAATAAATG
TAATTTTCCA CTNAAACTA TCATTATAGA TTGGTTACT ACCTACTGCT CAGCAATTTT TTTCTTATC AAAATTCTTC
CTGG

SEQ ID NO:298: (Length of Sequence = 152 Nucleotides)

CCTGAACAGG TAATGAGAAA AATTTACACA CAAGTGATTT TGAAAACAGA ATGGGTTGCT TACAAATTAC AGGAAATGTT
ATAACACAAA CCAGAAGAAT TCAATGGAAG GCAATAAGGGAAT GAAAATTATA AAAGTATCAN GA

SEQ ID NO:299: (Length of Sequence = 374 Nucleotides)

CGATGTTTTT AATGTCATCA CACGTTGTCT CAAAATGAGT GGTGGCATCA TATGTGCGGG AAATAAGAT CTGGCTTTCT
GTTCCCAAGT CTTTGGTAC CAGGAGGTCA CTGATGCTAA CAAATTTCTG TTCAATTGGT TCCAAGAGCT CCAAAGCTGG
TCTGATTTCC TTCTCAGGCT CCTGGTTTC CACAGTTGTA CTAACATAG CAATGTACTT CCCTGTGCT GCTACATTGT
GGCAAAGGA GATCATGCAG ACGTAGATAT CTGACTTTG ATTGACTTTG GTTCTGTGGA ATAATGATCT GGCAGGAGTT
GGCATCATG GTGTCTTTG ATGGGGTGG CTGAGGGATG CAAATAACCT CTG

SEQ ID NO:300: (Length of Sequence = 365 Nucleotides)

GGCTACCAA GCTCAGCAAG TACGTGTACT TCTTCGAGGC CTGCCGGCTG CTGCAGAAGA TGATTGACAT CTCCCTGGAT
GGCTTCTGCTG TACTCCGGT GCAGAAGATC TGCAAGTACC CTCTGCAGCT GGCCGAGCTG CTCAAATACA CGCACCCCA
GCACAGGGAC TTCAAGGATG TTGAAGCCGC CTTGCATGCC ATGAAGAACG TGGCCAGCT CATCAACGAG CGGAAGGGTA
GACTTGAGAA CATCGACAAG ATTGCTCAGT GGCAGAGCTC CATAGAGGAC TGGGAGGGAG AAGGATCTCT TGGTCAGGAG
CTCAGAACTC ATCTACTCGG GGGGAGCTGA CCTCGGGTTA CACAG

SEQ ID NO:301: (Length of Sequence = 224 Nucleotides)

GGTATTCAAA CAAATAGCCT GAGAATTTNG GGGGATCTG AAATAGAGTA CTATGCIATG TTGGCTAAAA CTGGTGTCCA
TCACTACAGT GGCAATANTA TTGAAGTGG CACAGCATGC GGAAATACT ACAGAGTGTG CACACTGGCT ATCATTGATC
CAGGTGACTC TGACATCAIT AGAAGCATGC CAGANCAGAC TGGTGAAAAG TAAACCTTTT CAGC

SEQ ID NO:302: (Length of Sequence = 363 Nucleotides)

AGTTTCACTC TTGTTGCCCA GGCTGGAGTG CAATGGCGTG ATCTCGGCTC ASTGCAATCK GCACCTTCCG GKTTCAGCG
AFTCTCCTGC CTCAGCCTCC CAAGTAGTTG GGATTACAGG CATGCGCCAC CATGCCCCGC CAATTTKTA TTTTCTGTAC
ACACAGGGTT TCTCCATGTT GGTGAGGCTG GTCTCAAACCT CCCAACCTCG GTGATCCGTC CACCTGGGCC TCTCAAAGTG
CTGGGATTAT AGGCATGAGC CACTGTGTCC GGCCAGCTCA AACAAITTTA ATGCTTCTTT CAAGNCTATT AGAAACCTTT
AATGCTTCT TAAGTTTCTC CCCCAACTAT GGAGGAAGCA TAT

SEQ ID NO:303: (Length of Sequence = 253 Nucleotides)

ATGCAGGAAS ATCTACCARG CAAATCGAAA ACAAAAAAAG GCAGGGGTTG CAATCCATCT CTCTGATAAA ACAGACTTTA
AACCAACAAR RRTCAAAGA CACAGAGARG GCCATARCAT AATAGTAAAG CGGATCAATT CAACAAGAAG AGCTAACTAT

CCTAAATATA TATGCACCCA ATACAGGAGC AACTAGATTG ATAAAGCAAG TCCTGGAGGT GCCTACAGAG GAGGCTTAGG
CTCCACACA TTA

SEQ ID NO:304: (Length of Sequence = 416 Nucleotides)

TTTTTTGAG ATGGAGTACT CGCTCTCTTG CCGGGGCTGG AGTGCCAGTGG CGCGATCTGG GCTCACCTGC AACCCCTGCC
TCCCCAGTTC AAGAGGTTCT CCTGCCCTCAG CCTCCCGGGT GGCTGGAATT GCAGGCACAC ACCACCATGC CCAGCTGCCT
TCTTGATTTT TTAGTGGAGA CGTGGTTTCA CCATGTTGGC CAGGCTGGTC TTGAGCTCCT GACCTTAAGT GATCCGCCAG
CCTTGGCCTC CCAAAGTGCT GGGATTACAG GCGTGAGCAC CGTGCCGAGG CTGTTTTTAA ACTGACCTTG GATTTTACTC
CCTTTCTATG CAAATTTAAT TTAGAATCTG TTCTTTAACC TTAGGGGGTT GGGTTAGACA AGTTTCAAGG GAGCCTCAAG
TGKAAATGTC TTAAGG

SEQ ID NO:305: (Length of Sequence = 223 Nucleotides)

CACACCCAGC TAATTTTGTG ATTTTATAGTA GAGACGGGGT TTCACCATGT TGGCTTGGCT GGTACGAAAC TCCTGGCCTT
GAGTGATCCC CTGCCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGTGTGA GTCAGCGTGC CCAGCCGAGA TTTTATTGTT
TTAATTACAA ATTTTACGTT AACTGATTCT GCACATTTAT ATTGACACAC TTGTGCTAGT GAG

SEQ ID NO:306: (Length of Sequence = 169 Nucleotides)

GTTTGGCCAC ATTGGCCAGG CTGGTCTCGA ACTCCCGACC VGTGAGCCA CCTGCCCTGG CCTCTCAAAG TGCTGGGATT
ACAGGCGTGA GCACCCGCC CGACCCATAG CTCTTTACAA CTGCCTTGTA AAGAAAGCAT CATTGGGCAC TGTTAGTATT
TCTCTTGAA

SEQ ID NO:307: (Length of Sequence = 303 Nucleotides)

GATTTGGTAC AGAGTATGTC AGGAAGACAA CTCAGATTGC CATTTTAAAT AAAGTTGTAC ATGAACAATA ATTGGAATCA
TCAGGTAATT TTTTAAACA AAGGTTCTTC ATTTACTGTT ATGATTGGAA AAAAAATTAG AAAATAAAGT AAGTSCCATA
GGCTAATTAA AAAATAAAAC CTGGCCCGG CGGGTGGCT TACGCTATA ATCCAGCAC TTTGGGAGGC CGAGACGGGC
AGATCAGNG GTCAGGAGAT TGAGACCATC CTGGCTAACA CGGTGAAACC CCATCTGTAC TTG

SEQ ID NO:308: (Length of Sequence = 143 Nucleotides)

ATCTAGGAGG CTGAGGTGGG ATGCCCCCAG TACTGGAGGT CAGGGCTGCA GTCAGCCATG ATCATGCCAC TACACTCCAK
CCTGGGTGAC AGAGTGAGAC CCTCTSTCAA AAAACCTCAG TCAATVCAA CATACAGTAT ATT

SEQ ID NO:309: (Length of Sequence = 199 Nucleotides)

CCCACCTCA TAANCCCCAC TGGGGAGTCT GGGGGCTCT ATTGCCATGT GCCTGGAAIN ATNATATGCT CATCACTTTA
TGAAGAATAA AATTTGINIT TCCTGCCCTTA AAGTTACATT CGTCTTCCG CTCAAATCCT GATCTGGTCC ATTAAAGAGT
GTCGCAGAC AAAGTTTCTG AAAGATTAGA GAAGAATCC

SEQ ID NO:310: (Length of Sequence = 426 Nucleotides)

TCCCTGTACC ACCTCTTCTT GAATACGGAG GAAAAGTTGG TTATGGACTG ATCCCTGAGG AATCTTTCCA GTTCTTTTAT
CCTAAACTG GTGTAAACAG ACCCTATGTA CTCGGAAGTGG GGCCTATCTT GTACGCTTTA TCCAAAGAAA TATATGTGAT
TAGCGCAGAG ACCTTCACAT CCCTATCAGT ACTAGGTGTA ATGGTCTATG GAATTAAGAA ATATGGTCCC TTTGTTCAG
ACTTTGCTGA TAACTCAAT GAGCAAAAAC TTGCCCACT AGAAGAGGCG AAGAAGTTCT TCCATCCAAC ACATCCAGAA

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TGCAATTGGA TACGGAGAAG GTCACAACAG GCACTGGTTT CCAGGAAGCG CCATTACCG TTTTMTATGG GMCAAAGGGA
GTTACATTGG CTATGGCTTT TGGGAG

SEQ ID NO:311: (Length of Sequence = 489 Nucleotides)

TCGACTCGGT CCTGGATGIG GTGAGGAAGG AGTCAGAGAG CTGTGACTGT TTCCAGGGCT TCCAGCTGAC CCACTCTCTG
GGGGGCGGCA CGGGGTCCGG GATGGGCACC CTGCTCATCA GCAAGATCCG GGAAGAGTAC CCAGACCGCA TCATGAACAC
CTTCAGCGTC ATGCCCTCAC CCAAGGTGTC AGACACGGTR GTGGAGCCCT ACAACGCCAC CCTMTGGGTC CACCAGCTGG
TGGAAAACAC AGATGAAACC TACTGCATTG ACAACGAGGC CCTGTATGAC ATCTGCTTCC GCACCCGTGA GCTGACCACC
CCCACCTACG GGGACCTCAA CCACCTGGTG TGGGCCACCA TGAGCGGGGT AACACCTGCT TGGCGTTYCC GGGCCAGCTG
AACGAGACCT GGCAAAGTGG CGGTGACAT GGTGCTTTC CTGGCTGAAT TTTTAATGCC CGGTTTGGGC OCTACGAGCC
GGGGAAGCA

SEQ ID NO:313: (Length of Sequence = 302 Nucleotides)

CTTCTCATGC CAGTCTAATG ATTGTTTTTA GAAAAGGATA TACATTGACC TTCAATGTAA TAAGAAATGC AACACTTTAC
GGTGTCACAC TGCTAAGATT TATTTCCAAC TTGTGAGACA CAACTATTTT GCCCAATCCA AATCAAAGGG AATCAAGGCT
GTGAAATCCA CACAGGACAT CAACGACAC ATAAATGAAA ACTACAGATG TGTCAGAGGC AACCATATAC ACACAAATAA
TGTAACACT AAATTCATG AAGTAGCTGT CCAGGGAATA CTTTCCAAT AACCTTCAGC AG

SEQ ID NO:315: (Length of Sequence = 339 Nucleotides)

CGCGTTATTT AAATGTGAA AAATAATGAA TATTAATTTG GAGCATAATA TTAAATACA TGAAAAAAGC TGGCTGGGAA
ATGTTGGCAT GACTTTTCCC AGATGTTAGC ACTGCTTCAA CTTTTGAGAG NGCACTCTGA GTGTAAGTTT ACTAGACTGA
CATTACTAAA ATCATTTGGT CTATAGAGGC AGGAGAATAC GGGGAATAAG AAAGCCAGTT GCAAGCCAAC AATCCTAAAA
CTCCTCTTTT TGCCATGGAC TGACGGCATA TTAAATGAGA TCATGCATTT TAAGGATTA ACAGTGATCA CCACATGTGC
GTGTTCCAAT AAAAGGAAG

SEQ ID NO:316: (Length of Sequence = 430 Nucleotides)

TAAGTGGTG GTGCTGTCTT GGATGCTTCC AGTGGGCCCC GACCAGTCTT GGACAATGCC TGGCGCCCGT CCCCCGCCCC
TCTCTACAC ACACGCAAGA NITCGGAGCT CCATGGGGAA CAGAAGCAAG ATATCCGTAA AATCAAAGTC TAGGGGGTGG
GAATGAAAAG GGAAAAGTGA GGAACGGGA GCCAAACCCA GGAAGACGCC TCTTTTCTTG CACATTCCCT CTCCTTTATA
TACTCAGCTC TTGGCTGTCT CAGTATGTA CCCACCTGG TCTTCCAAGC TGGGAGCCAC TTTTATAAC ACAATCACAG
TTTCACAAAC CCCAGGAAG TTCCATGTGG NGAGAGGTTA AGTTTCGNCC TTGTCCGGGG AATTATGACA CTCAGAATAT
CCCCPTTGGT GTAAATGGAA GACAACCTTT

SEQ ID NO:317: (Length of Sequence = 317 Nucleotides)

GTTAATGCTT CTNATACCTA ACAAATCCTG GAGGGCAGNC AGCACCAACA CTCAGGGTGC TGGGAAAAGG TGGTGAGAG
ATCTGAGGCA TCTCGGGGCG AGGGGAGGGC TGGGAAGGCA GGCTGGCTNG GACCTTCGCA TCTTAACCTA ACCTTGACCC
TCTTTCCATG AGCAGAGTTC CGATGCCCTG GAAGCCTGGG AGAGTGGGGA GAGATCCCGG AAAAGGAGAG CAGTGCTCAC
CCAAAAACAG AAGAGTGAGG CTTCCAGGGT GCAGCAGGGG TGGGAGGTGA TCAAGCAGCG TGGGGATTGT AAGCCCG

SEQ ID NO:318: (Length of Sequence = 407 Nucleotides)

CTGCCCCCGC ACCTTCCCCG CCTATGCCCC TCGCTGAGAT AGGCCCTTCC CTCCTCCGGG AGCCTCCCGG GCCACGGGAC
CCTCAACTTC TCCAGCCGCT CCACCCACGC TTCTGGACC GCCTCTGCA GCGGAGGCTC ACATCCAGCA CTGTCCCTTA

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CAGTCGCCAT GCCCTGGCG ACCTCAGTGT CCCACTCTGT AAGGGGACAA TGCAAATCCC TTTGCCTCAT AGGGTGCGATG
 TGCCAGINTT GATAAAGTGC TGGCCACAGG CCCTGCCTTC CCAGGGCTCA CAACACTGTG TCCCTGACAC ACCCGTGGGC
 TGTAGTGATT CTNTTCATGG GGATTGACT ATAACNGCA GTCAGGAATG AATTTCACAN CATAGCTCAG TACATACACA
 CATATCT

SEQ ID NO:319: (Length of Sequence = 382 Nucleotides)

CACTGCACAC CTGCGGTTGG GGACAGGACA TGACTAAGCA CAGAGCTTTC TTCTTTTGAG GCCACGCATG TGGTGACAGAG
 CGGGACCACC TGCATCCACA CAGCCCGGCG CACCTGCTCC TACTTCTGCT TAGCGTGTGA GCAGCTTGGT GACCAGGGTC
 TCCACCAGG GGCAGGCCAG GACCGGCTTA CAGCACTTTC TAGGGGTTCT CTGGTCCCGG GCTGGGACAC ATACAGGGCT
 TAGTAAAGTT CATAGATGGT AGCTAGGCAG CCCAGGCC CAGGTGACAC CTNTCCCTG CTGNCCTGT ACTGNCCTGCC
 TGCAGCACTC CTGGGAATCT TGTACGAAGA CAAGGAGAGA CAGGACTTCA TCTTCACCAT CT

SEQ ID NO:320: (Length of Sequence = 368 Nucleotides)

CATCCGGGCG ATGGACAGCC CCCGGGGTGN CCGCCCGCNC CCCCTCGCC GCGTCGCGTG CNGTTCACCA GGCAGCACCT
 GGACAGCTCC AGAGTCGGGG AAGCGCCATG GTTCTGCGC AGAAAGGATG CGGGTGGGG CCGGCAGATC CTGCCAGGAC
 TAGGGGCCCTT CCTTTCCAT CAGGAGCCTG CAAGAGAAAC AAGAAAACAT TAGAGGGGCT TCTGTGTAGG GGGAGGGCAA
 GTTGAGTCTA TCTTCTCTT TGTAGGTACT AATTAAACAC CTGCTGINTG CCTGGTACTN TGCAGGGTGG GACAGGCATC
 ATAGCAACTC ACAGTGGTCC CCTCTCTTT GTGCCCATAG TCTAGTAG

SEQ ID NO:321: (Length of Sequence = 355 Nucleotides)

GGTGGACTGT GCTGTGAAC TGAGCTGAAC TGGGATCAGG AGAAGGAGAA GTGGGGATTG AGCCCTCAC CTCCACACAC
 TCTCTCTGT GCTGAAATT CTCCATTAA GCAGCATGCG TGTCCCTGT AAACACCCAC ATTAAGCCAT TAITCATCTT
 ATGGCTTAG TAGCGGTTAG TCCCTCAGAT CCTTCTGTC TGAAGCGGA TCTGATAGA GAGAAGGGAA GAGAGATGGA
 TGGTCTGGG GACGGCAGG TGGTCCAAGA GTGGGGAGGA AAGATGTCTC TCGGACTCTN GGGNAAGAAA TATTTCTGG
 GGGAAATATGG AGGCACCANA GGCAAGCTCA AGAGG

SEQ ID NO:322: (Length of Sequence = 225 Nucleotides)

CTCTCACTTC TCACCAGGCA CCCACAAAGC CCCAGGCAG CTCCATCTTT CCAATCCANT CCCATTATCC CAATCTCTAC
 CCCAGGATCC CCCAACTCC TCCCACTTCA CCTCTGCCAC AGACCCGCTC GCCCCCAAAC TTCAGCCTNC CCTCATCTGC
 CCTNACCACC CACAGCCCTT CCTACCTAGC CCTCTCCCG GACGGGCCCG CGGGCTCCCC ACATT

SEQ ID NO:323: (Length of Sequence = 250 Nucleotides)

CTCTGCTCC TGTCCGTGAC CTGCGAGATG CAGGTGACAG CCTGCCTTC CGTTTTTNTC TTTCAGTCC CGCCTGCCGG
 AITGGGTTCC AGCCCTGCC ACACGCCCG TACATCCCG CTACACTCAC CGATGTGCC TAGCAACCCG GCTCGCCGCC
 AGCATCCGA ACCGAGGTCC CCGCGCTCCA GTTCTCTGN GGGGAGGGAG AGGGGTGTTG CTTCCTCAGC CCCCTGCAGC
 CTGGTGTCTT

SEQ ID NO:324: (Length of Sequence = 338 Nucleotides)

GINTTCTTAT GCGGATAAAA TTTCTNAGGT AAGAAAAGTT AGCTCTGAGC AGCCCTCCGC CTGATACTAA TACTTTACCA
 ATGGAGATT TCTTTTCTT TTCTGTTTT GAGACAGGGT CTCACTTGT TTCCAGGCT GGAGTGCAGT GGTGCCATCA
 TGGATCACTG CAGCCTCCAT TTCCCTGGCT CAAGCCATCC TCCACCTCA GCCTCCGAG TAGCTGGGAC TACAAGGTGT

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GCACCAACAC GACTGGCTAA TTTTAAATTT TTTNNTAGAG ACGGGGGTTT CCCTATGTTG CCCAGGCTGG CTTGAATTCC
TGGGCTTCAA GTGATCCT

SEQ ID NO:325: (Length of Sequence = 461 Nucleotides)

ACTCCAGACT CCTCCAGCTG TCATGGATCC TGGGCCAGGG GATCCCGNAC TCACCCAAAG TGGGGCTTTG GGCGGTGGTG
GGCCGGTTCA GTGGTGGAGC GTCTTTTGT CCAGCTCAGA ACCTGCTGCC GGTCCGGTCC CAGAAAAGTT TCTAGCGGGT
GTAGTTGCCA AAATTAGGGT CTGTNACTGC TGGGCTGGCG GTGGGCGCCT CATCCAGCC TTGGAAATCC TTGCCTAGTA
GCGGAAGTT CTAACACGCA AAGGATACAA GGCCCTTGA GCGCAAGTAA ATTTCCCCTC TTGCAGCAAC AGGTGTCTTC
CAACCAAGC AGCGTCCAGC TGTGTNCGT GGCTGGAGTT CTGCAGTNGG GTGTGGGGAT TGGGAAGGTG CACAGGCAGC
CGCTTGAGAC CCAGAGGCAG TTTGGGGGAG AGGCTTGGG CTCAGAGGCC TTTCTTTGTT T

SEQ ID NO:326: (Length of Sequence = 391 Nucleotides)

GGCCCTCCAG TGTCTGCAG AGAGGCACTC TTGCCAAGTG TCATTGATGA CGCAGCTGAA AACCAGAAAC ATTTCACTTT
CCAGCCACGA GACTGCAGCA ATCTGCTCTT TGGACTGCAC TTAGGGAAAC CGAGGCCAG ATAAGTACC CCTCAAAAGC
CCCCAGGACG GCAAAATCAA AGGGGCTGAG GTGCTCTGAA CAGCCCCAGC AAATTAAACC ACCTAACTTT GCGCTACTCC
CACTGCCCTG AAGCAGCCTG TGGTGGGAGG TGGGGGTGGA TACAGTGTTA CAAAGAGAAA CCTGAGTTGT AGCCATAGAT
TGCTAATCAG TAACAAATA TCCCTCTAAA CCCAGTCTG CCTTGAACCC ACAGGCTCAG GATGGTAAAT A

SEQ ID NO:327: (Length of Sequence = 438 Nucleotides)

TACTGACTGA CCTGGG GATTCCCAGC CGAGACGTTT CTGCTCCATT CCGGCAGGAG CTACCTTCCC GAGCCGCGCT
TTGCTCACCT GTAGGAGG TAGAGGGAAA TAAGACAGCC CTTCTTAGGA TGGTGGAGTG GCTAGAAAGA AGCAATCCAC
GCCAAAGGCT TAGCTCAGTT CCTAGACTTA GTAAATGCTC AATAAATGTC TGCCATTGTT ATTATTATTT ATNATGCTTC
CAGCTGGCCT GGAAGGAGGG TTCTGGAGCC AGAAGGGACC TTGGAGAGAC CTCGGTTAAA TCTCTAGGCG CATCTTTATT
TTTAGGATGG AGTAACTTGC TCAGGACCTA CATCTAACAT TGTGGAGGGG ATGCGGTTTT TAAGTAGGAA TTCTTNGACT
AGACCTCTCA GCAACCCCTT CTNTCCGTG ACAGTGGG

SEQ ID NO:328: (Length of Sequence = 400 Nucleotides)

TTGCCCTCTC GGCCTAGAAG TCTCCCATTA TGGTGCTGTG TCTGCTGGGA CCCACGGGGC GCTGCACAGG GAACCATGTG
GCGGTGAACC TCAAGTCCNG NCCAGCAGGG GTCAATTGTC TCAENCCACC CCTCCCTACC CCCAGTATCC TCTCTCCTTT
ATAGATCATC CATTAAGTGC CAGACACTGC AGAAGGCACA TTGACTAATA TTAATATTA GCCCAGCTAC CCTGCTGGGC
TGTCTTCTT AGAAATGAGG AAGTGGAGGG TTAAGTGGAT TTCTCAAGGT CGTGCAGCTG GTAAATGGCA GAACCAAGAT
TTGAACTCAG GTGTGCATGA CTTCAAAGGA AGACACCACT GAGGCTCCT CTANTGGGTC TGCTNCCCTA CCGGCCCTGG

SEQ ID NO:329: (Length of Sequence = 227 Nucleotides)

GGCTGGGCTA AACTCCAGAC GCTGGCCACC TTCATAGGGT GGAGATGACA GAACAGGACA GGAGCCATGG GGCTCCCGGG
GCGGTAGGG GTGGGTGATG TTCTTTGGCT TGGGGGCGT TACAAGGGTA CAGTGGGGCT GTTTGAAGGG CAAAAGTTCT
GTAAGTNCGT CCCNACAGGC CAAAGAAACC CCAGAGCCGT CTTTCGACTG ACTACAGCCT GGAAGAG

SEQ ID NO:330: (Length of Sequence = 401 Nucleotides)

TGAAAATATA TCCACTGTTT AGAGGGACAA CAAAGGCAGT TAGACTGTCC TGAACGTTCC TGCCTCAGGC TGAAATTTT
GTAGCACTTG ATCAGTTGCA AAGTGTCTT CCTTTAATA TCTCATTTTA TCATTGGGTA TCTGAAGAGG AAGTGGAAAT
GGGGTAAGAA TTTAGGTTCT TGCCATAGCA TTTGGGTGGC CAGGGTAAGC CTCAGGGTGG AGGACCCTTA AAGAAAACCT

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TAAGGATTTT AAGGAGAGTC AAACCTCTACA TTCAATCCAGG CAAACATCTA CTCTTCCATT GATTAATGNN TCCACTCATC
CGTGGCAACAC ATTCACTCTT TCATCCATCC ATTCAATCCAT CTATCCINCA TCAATCCATC CATGTATCTT TCATTCATCC
A

SEQ ID NO:331: (Length of Sequence = 322 Nucleotides)

CCCAACGTTG CCCCGCCTTT GTCTCCAGCG GACTGGAAAG AACCACCAT TGTGAAGCAC AGAAAATTGC CCGCACTCTT
ATTGGCTAGG TTCCCCGACT TCCGCTCTCG GTTGGTGGTT GGCCTTGCCT GTTACCTGIG TTGCCACTA CCACTGCTC
CGCGAGCCC CAAGGATGGA TCGCTATCCC GTAGCCGGT GTTCCGGAGC GCTGCGGGCA AAGCAGACCG CCTTGGCCCT
ATTATGGGTT GAGTGGCTCT GTACTCTAGA TCGGCTCTGT CACTTACTAA TGGGCCGTGT TGCCTTCGCG ACTGCAGGTT
TT

SEQ ID NO:332: (Length of Sequence = 441 Nucleotides)

GGCTCAAGNA ACCTGCATC TTGCACTCTG GCCTTCTCCC AGGCTGAGCT TTATCATATC ATCAGCAGCA ACCTGGAGAA
AATTGTCAAC CCAAGGGTG AAGAAAAGCC ATCTATGTAC TGAACCCGG ACTAGAAGGA AAATAAATGA TCTATATGTT
GTGTGGATT CTTCTGGCG TGTGTCATC ATTCAAAAG CATTATTTGA GTGGCACCTA TGTCCAGCCT GAAGATGAAT
GTGGTGGGAA GGGGTGGTG TCACAAAGAC AAAGATGACT TAGATGCCCA CTGTAATCTT GACTGTGAGA AAGAGGGGAT
TCAGGCCCTT TCTCATCCAG TAGTCAATGT GCCATCTCCC CTTCCTAGT CACCTCTTAT CTTCACTTAC CTTCTTCTT
CTCCTGCTTA TCTGTTTCC ATCTAAGGCA AAAAGGGGG G

SEQ ID NO:333: (Length of Sequence = 354 Nucleotides)

AGAAGCGTAG ACGAGTAGC TTGAGCGCCT CTTCGGTTA CCTTTTCCCA GCGCCAGAGG GCCTTAGGGT TGGGGTCTC
GCTCAGGCAC AGAGNCCGA CACGAGCGG CGGCTTCCCC GGGATCGAGG GACGCGCAG CCAGAGGAGA CGAAAGGAAC
CCGGGTCCGA CCAGATCGGA ACCACTGACC ATTGCCCATG GCGGCCCTAG TGAGINTGGA TTTCGCGGGG TTCCGGGGTT
CCGACGGCGA CCTCGGCGAC CCTCACTCA CCGCTCTC TTTCNCAGG GNCCTAGNAG CCAGAATGTC ACTGAATACG
TNGTTCGAGT TCCTAAGTAA GTCCCCAGGC CCAT

SEQ ID NO:334: (Length of Sequence = 196 Nucleotides)

CTCCCGCTCC GCACCGCCT TTCCCGAGCA GGCTACACCT CTCCTGGCG CATCTTACT GGAAAGCCGG CAGNGGNG
GGAGAAGTGA GCNCCGTCTC CGCGCTCCT CGGTCTGCT GGCTGAGCG GGGGATGGCT CCGGAGGGAG AACTCAGGA
AACCACCTCC GCCCTTCCC CATCTTATC CAGCG

SEQ ID NO:335: (Length of Sequence = 261 Nucleotides)

TCCGAGAGCT GTCTGGGGCC AACGTGCTGG CTGAGTACTA CTGGCTCANA CGCGCCTGC TGGGGGCCCC TGGNAATNTA
AGTCTGCCC CGGGCTGTG CGCCTCTC CTGANAGCC CCTGCTTCC TGGGCACAGG GAAGCCTCCA TAGGCTAGTA
GCATCACAGT GCCAGGCCA GAGCTTACTG GACTTCCCA GGTCTTATG GACTAGGGCT GAGGGTACAC ATCTGCTTT
TTTCCAGAAT ATAAGTTTG G

SEQ ID NO:336: (Length of Sequence = 191 Nucleotides)

CGGAAAGCG CTTCGGCCAC ATCCAGCAGC AGTAGCAGCC GCAAGNCCG GACTCGAAG GCCCACCNGA GNOGGACTAA
GTCGTCCAAG GAGCCGCTT CGGCCTACAA GGAACGNCC AAGGCCTACC GGGAGGACAA GACCAGCCT AAGGCCTACA
GGCGGCGCG GTCCNTCAGC CCACTGGGAG G

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SEQ ID NO:337: (Length of Sequence = 279 Nucleotides)

CCTTAGGGCT CCTCCTGACT CCTTCCAACCT CCCAAGTCTG CAGCCCAGGT AAAGCCAGAG CAGACTNAAG GCAAGTTTTT
 AGGAAACCAG GNGGCTTGAT CCAGACTCAC AATCTCCCTG CAAAAGTKTT CAGAACACAC CGCACAAACA CACACACGNC
 TCACAAAACCT TCTGAATGTC GCTCTGTCTC CACCTTCTCC AGTCACOGAA AGACCTCGGC CTGAATTGGA GCGCGCAGCC
 GTAGCTGTCC CTNTCCACCT GTNGCCCTCG CGGAGGCTT

SEQ ID NO:338: (Length of Sequence = 339 Nucleotides)

CCACNCGTGG AGGGAGGCAA AGGGGCAGCA AGAGAGAGGG AGGAAGCCCC ACTCTTTTAA AACAAACCAGA TCTCTTGTRA
 ACTGAGAACT CCTTATCAC CAAGGGGACG GTGCTAGACC ATTTCATGAGG GWTCCGCTC CATGGGCCAA TCCCTCCCA
 CCAGGCCAC CTCCAACACT GGAAATAACC TCCAGCAGG CCGCCTCCA GCACTGGAAA TAATGCTTCA GCGTGAGACT
 GGAAGGGGAC TGATGGAGCC TGGWTGTTK TCCCGCCCA GSTCTMACG TGAACCGTAA TCCCAATGC TGGAGGCGG
 GCCTGGTGGG AGGTGACTG

SEQ ID NO:339: (Length of Sequence = 334 Nucleotides)

GGCACCGGGC TGTCTCTNGT CCAGCTAGCC TCACAGGGAG TGGCCTCTAA AACNGGCGG CCCACNCCAT TTGGAAGCTG
 TCCCGGGTTT TCCGTGAAGT CCTCCCGGC TGTGGTCTCC TGGATGGTCT GGACCAACAG CTGGGGGATG AGGGGAGGCT
 CGGGGGCAAG GGCAGGAGCC CCAGCCAGGC GCTGGGGGTT TGGCTGATCG AAGAGCTGCA CCACCCNGTA GCTGGCCAGG
 TGAGTATNGG CGTCCACCAG GTGCAGACAC ACATTCTTTT CCTTACAGC CTCCTTACCC TGGAGTTTAT AGCCAAACGT
 GAGGTCGATC CAAT

SEQ ID NO:340: (Length of Sequence = 450 Nucleotides)

GGCCCCACAA TCCCTTCTG GCTCCGGGA CGGGCGGGC GGGCGAGCG GCGGAAATA ATTTINTGTT TGGTCGTCTC
 TGCCCCAGTC CCTTCGCGC GGGACGGCA GACGGGAGAA GGTGCGGAA GCGGAAGCA GGAGCGGGAG CGCGCGGCC
 TGGCAGCAT AGGGCGCGG AGAGGGCAG AGCAGGGATT GAGCACCTAC TGTTGCTT CACGCTTTAC AAAAGGATT
 TCGTTGATG TTCACTACAG CCCCTGCCG GGGTACTGA TGCCCCATT ACAGAGGGAC AAGCCGGATT TCGGAGAGGT
 GAAGTCACTC GCGAAAGTC GCACCGCCAG GGTCTGCTG ACACCCTAAA GCAGTGTCA GTTACCCCGG GGAGAGCGCG
 ATGAACTTGA ACCACTTGTT GGCTTGGTTC CTGCTCTTGC TCGTTTTTTT

SEQ ID NO:341: (Length of Sequence = 192 Nucleotides)

TTCAAACCTT GCGGCACGG CTGTCCCTC GAGGCCCGC CCCTTCCCT TCCGGAGAGC CCACCGCTGG GTCTAAAGC
 CCACCGCTGG GTCTAAAGC CCGCCGGTN TTTACCCAGG ACGGGCTGG GGAAACNGG TCTTCTAG CTCTGGNT
 ACTTCTTGA GACTTCTTAA AACGAGAGGA GA

SEQ ID NO:342: (Length of Sequence = 229 Nucleotides)

GTGGTAACIT TTTTAAAAA CATAAATACC ATACAATTCA TCCITTTAAA GTGTGTAATT CAGTGGTTTT TGGTATATTC
 AGTGTGAC AGTCATACC ACTAATTCCA GAATATTTT ATCACNCCA CGCTGTATC TCCATTCT CTCTCCCKG
 CAGATCCTGG CAACCGCTGA TCTACTTTCT GTCTTTACA GACTTATCTG TTCTGGACAT TTCACATAA

SEQ ID NO:343: (Length of Sequence = 229 Nucleotides)

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TGCTCCAGGA AATTGGAGTT CNAGCTGAAG GCCTTGCGC ACTCCGNGCA CTGCTAGGGC TTCTNGCCCG TMTGCGTGCG
 TCGGTGCTGC ACCAGCGTGG TGCTTGNCC GAAGACTTGC CGCAGTCCGG GCAGCGGAAG GGCTTCAGGC CGCTGTGTGT
 CTCTGGTGG TGGATGAGCT GCGAGTNGC GCGGAAGGCC TTNCCGCACT NCCTGCAAGC GTAGGGCTT

SEQ ID NO:344: (Length of Sequence = 227 Nucleotides)

TCCGAGATC ANATTACCC TTGCCAGAGG TCAGGSCCCC CGGCCTTGGC GCGGGGCCAG AAGCGTGAAT TGGCCTSCTG
 GAATGCATGC CCTTAAACAT CTCTAGACTA GGGGCACTKT CCGCCAACCA TGGAGGCCCT CCATCACCAT CCCTGCAGCA
 TCACCACNT CCAACCCCCA TGTCCACCC TGGNGNTCC ATACCTGTAG TAAGAGAGCA AACCAAT

SEQ ID NO:345: (Length of Sequence = 249 Nucleotides)

GGGCAATGTT GTCACAGATG TGTGCAGATT TTSCAGAGGA CATAAGTTGG CTGTGAGGWA GAACACAGAG GTTSCCTATT
 TTTTAGGCAG GAAAGAAAGC CTGCACTTTT CTGTGTGTGT GTNTCAATAA ATCTGAATAA CACCTTGAAA GGGTTAAAAA
 GCTGAGCACC AGGTGTTTTT TTTCCACTTT CCAGAGTAAT TTAAGCACAC NSCAAAGTTA TCTCCCTTCC TTCCCCACGA
 GCCAGCTTA

SEQ ID NO:346: (Length of Sequence = 356 Nucleotides)

ACCTAGTCCC GCAGCCGCTG CAGCCGCTGG GTTGGCGGAA GAGCTGGACG CCGAGCTAGA GGACGAGGCA GAGCTGGACA
 CAGTGGCGGC GTGAATTGGC CACTNCTTTC GGAGCCGAN CTCTCCCGCA CTGGAGAGGA CTCTTCTTG GCTGGGCGGC
 TCTTGGTTCC GCTCCCGCTC TGCTGCTGCT GCGGGCATTT NGCGCGCGG TTCTTGAACC AGACCTGCAG TGGGCCGAT
 GGGGAGAGT GGGTCAAAG GAGCTAGGGG AGCTTNTTGC TCCACCGNCC CGTGGACCCA ACTCCCGGTC CAGAATATCG
 CAATCCTTTC TCACCGAGGC CTTGACCCCT TCCTGT

SEQ ID NO:347: (Length of Sequence = 155 Nucleotides)

GCOGCGTGC GTGGATGCC CAGCTGCGT CCAGACCCGC GGGATGCAGA CCCGGTTCAG TCAGGCTTGA GGGCTGCTCC
 GCATAGACCA ACCTCCGGG AAGGCACACA GTGGCCGAGG GCCCGCGGC TTKGGCTACG GCTGTRATGG TATCT

SEQ ID NO:348: (Length of Sequence = 362 Nucleotides)

AATTCGATT TAACTGATTG TCTCAITCTG CTCATACATT TCAAGTTTAA ATGCAAGCAT AAAATGTTTA TCAACAAATC
 TAGAGAGCAC TTGGATTTIN AATTTTCTTG TGATCACAGT AAGGAGCATA AAAAAGAGTA TCTNCTGTTA CACAAGGCCT
 GINCTCTCTT TACATCTTCA GACTTAAATT CTGTAGAAGG TAACAGCTTT GTATTAAGGA CAGAAGCTTA GTGGTCACAA
 ACAAAAATA AACTGAAAT ACAATCGGG NATTANTGAT ACTGTGTGTC TCAAAGGATA CCTGAACAT TACANTNACT
 AATAATTGG GCAATGAGAT TCCNGGTGN TTCAACTTTT TG

SEQ ID NO:349: (Length of Sequence = 342 Nucleotides)

AATTCCTTT TTTTTTTTT TTTTTTTTT TTTTCAAGTAT CACAATGTTT ATTGATAGAT ACAAGTATAT
 AAAATCAGGG CATGANCATG ACTTGATAAA TTAAGTAGAC TTAATTTCAA TACTATAATA GGNGGGACCA ATTCAAATTC
 TCACCATTTG TTTCACACCC ACAAAAACCA CTTCAAGGC ATTAACGNTC TCTCAAACT GNTCAGTTT GTGCAAGTAA
 ACCATGTTTC TTTTAAAAG ACTTGTCAC TTGCCAGGC TCAAGTTAT TAAATCTAG GCACATAAG NCCATTACTA
 GAGGTAGGAA ATACAGGCAA TT

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SEQ ID NO:350: (Length of Sequence = 384 Nucleotides)

GATCTGTGCT AGCTGTGAGG CAGCTCTGGA ACGTGAAGAG CTGTTTGGTT TGANCCGTGA ACAAACCTGT GTTTTGAGTT
 TAGCTGACAT TAAAGAAAAA AGTTCATCAC GTGACTGTTA ATGTAAACCT GGTATTAAAA ATAACATATT AAAACAGGAG
 AAATCTGGTA AGTGTGTAGG NTTCTAAATT CCTTTTAGTC TGTCACTGA GATATTAAAT TTCAGTAGAC AGAACCCAAA
 AAGAGATTTC ATTTCTTTCT AATCACTTTG GCTTCINTCT NTTTTNTTAA GTAGGTAAAA ACCTTCCTTG GTGGGCACCT
 AAGCAGGATG CAGCCAATTA GTTCATGAAC CCAGCTGCGG ACGTGAAGGC TTAAATCTA AGGA

SEQ ID NO:351: (Length of Sequence = 305 Nucleotides)

ATCCTGACCC TCCCCACTGC AAGCCCAGGG AGCCCCAGCC CAAGATGGCC AGCCTGAAAC TGTGGCCAG GGCTCCTCTT
 GTGGCCATGT ACCCAGGGCT GGCTGGCCTG CCATTGTGCT CTCCCCGGAG ACAGCCGTTT TTCTGCAACC ACACCCCGTG
 CCTAGCCACA ACCCCAGGCT GCAGCTGCTC AGAAGCTCCA GGCATTTTGT TTCTGGTGAC CGCCCCAAT GGGATATCGG
 TGATCACTGG TCCACCCTTC CTGTCAGGGC TTTTCTGGGG GCTGCTCTTG GAAATGAAGT CTAA

SEQ ID NO:352: (Length of Sequence = 270 Nucleotides)

GAAATTACCC ATGGTCATAT CTAGCCTACA AAGAAGAGAA AATACAGTGA TTCAAGTTTC ATGTATTCC TCTCATTGAT
 ATATTATCA ACCTTCCAAT TGAAGGAAGT GTCCTCTAGG CCTTACAAA GAATGTAACC AGGGTTTAGG TATACAAGTT
 GCATATGATA AATCTGTCAT GTTCTATAT AAATCTGTCC ATATCTCTCT TCTGAAATGC ATTATTTTTC GGGGAAATTA
 AAATGTGATG CAAAGATCCT TATACTTTGT

SEQ ID NO:353: (Length of Sequence = 195 Nucleotides)

GTGTGATTCC ATTTATATGA AATGNCCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
 GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TNATGTCTTC ACGGGTGAT GACAGAATGT NCCAGAACGT GACAGAGGTG
 GTGCCTACAC AACTTTNTGG NTGTACTAAA TGCCG

SEQ ID NO:354: (Length of Sequence = 388 Nucleotides)

GCCAATTTT TTATTTTGT AGAGATGGAG TCTCCCAATG TTGCCAGGC TGGTCTTAAA CTCTAGGCT CAAGGGATCC
 TCCAGCTGG GCCTCCCAA GTGCTGGGAT GATAGGCATG AACCACCAT CCCAGCCCAT TTCTTTTTC CCTTTGCACA
 GTACCAGATA TATGGTTGGT ACTGCAGAAA TAATTTCCCC CTGCCCTCTA CATTGATCAT TTGATGACCA AATAGTGTCC
 GTCTAGCCAC TTATTTATGA TTGTACAAA ACATTCCGCT TTCTGAGGTA GACAGTGATA TTCIGAAGCC ATCAGTAAGA
 GTAATTTTC AGTNTTGTG AAAGTGNCA TTCTTTGTGT AAAGGTCAGC CTGTCAAGGA AATAGCAT

SEQ ID NO:355: (Length of Sequence = 288 Nucleotides)

TAAAGTGAAG TATTGGGAAA GGAACATCT CACTCTGATA GATTTGAATT TNCATTTCT GCTCTGTGAC AAAACCTGA
 GTTGATATGT GATCAGACAT TTACAAGGCC CTGCATTCTA CCTGGNAATG GCTATAGTGG TGTGAGCTG CTGTGAGATG
 ATTTACTGCA ATTTGTCACT TTTGAACT GTTCCAAAAT AGTCTGCTGA CAGCCCTTCC CCTCATGAAA ACATCTCTCC
 TTTCCAGTT AAAAAACAG TCAAAAAACA CAAAAAAGG CCACCTCC

SEQ ID NO:356: (Length of Sequence = 401 Nucleotides)

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GGAAATTAGG TTGGTTATTA ACATGTATAG ATGGAAGTGG GGTGAAAAA AAAAGGAAAT GGAATGGAG TGAAGGGTT
 GGGTGGGAGA GACACTTCAC AGTATTCTTT TTGTTTGAC TTGGGAAATG TTACTATTTC ATAACTTAA AAAAATGCAA
 AAAAAAATA TCAAACTAG GTAGGAAGGA GAACAAATG AAATATAACC AGAAAGGAAT AANCTAACA CATTTTGAGT
 GAATCACAAA GCCAAACCA AAAAGAGCTA ATTTAAGTCA CTTTAACT TGGTGTAA CTACCTACAC TCAGTCTAAA
 AACGNAAT AAGGGTAAAG AAATAGTGA ACTCTAGTTA GTTGGGTCTT TTCTTTACAG CAGTATGGG ATGGCAACCT
 G

SEQ ID NO:357: (Length of Sequence = 275 Nucleotides)

CAGACAGTGG ATAATAACA CCTCATTAGG AAACGATCT CAGAATGANC TCTGGAGTAT GAAAAGATC ATTCTTTTT
 GINCTGTAA CCTAGCATTC CTCTAGGCT TCTNCTCCTT TAATGAACC ACAGCTTAGC TCATGTATTC TTTTATTAA
 ACCCTGCTCT CATGTCCATA AGATTAGGA ATTTAGGAAA TNAGGCTGGT TTGAAGAGGG TAGAAAGCAA TAAAGGCAGN
 AAAAAATAAG NCTAAAATCA GGGGAAGATG TATTT

SEQ ID NO:358: (Length of Sequence = 314 Nucleotides)

GTGAAGGAAG TATGAAACT GAGACTAATA TTATGAAGTC TTTTTTAAT TCTTTATCTT ATGCCCCAT TTTAACCCT
 TGGTGTGGA AATGGAAAT AAATATNCTC TTGCGATAG ATAATATGTC AATAACCAA AGGTGGCCTT AACCAATAAT
 TGGCCCACT TTAAATTAT ACCCTAAGA TATATAAAT ANCTAATCTA AAATTAAATG CAATTTTGT ATGACTTAA
 GTGTCANTAA TCCGTATTA GNGATCCNNT TTATGCAGTC ACTTAGGCAT GAAGTTGCA ATTCATCTAA ACTT

SEQ ID NO:359: (Length of Sequence = 372 Nucleotides)

CAAGAGAGAC ATAGCAGGCA TTGAAACAAT GGAAATGCC ACATAGCAGA AGGGAGTGAG GGGATCCAAA CTACAAGAGC
 GACAAAATCA ACTGTGGATC CAGAGACGAA AAAATGTTCT GTAGTGCAA GGTAACTGG TGAGATGAAA AAAAAAGAAC
 CATTTTGA AAAANGGAAT ATTAGAAATA TTGAAGTAA TATCATAAGT CATCTATTA CAAAGGCATT AACTCTTCC
 TATCAATAGA ATGTACCAGT TTAAANTTT TTAGTAGGAA TATATCTTTT ATTTTATTAA CAGAAATCAN GGGACAAAGA
 GGATTGATC CATCCATACT TCCTACTCTT ATTGGGTTTG TCAAAATGTA GG

SEQ ID NO:360: (Length of Sequence = 395 Nucleotides)

GCATCTTTT GATACCCACC TAATAAGAC AATCTCTAAA ACCAAATAAT AGGCTATGAA ATGTATTGIG AGTNCCTTAT
 TCATCAAGA CAGAGCTTAC CTTTAAGTCT CCAGCTGAGA CAGTGGTGT TATCTTCTG AAAGCAGTTT GTCAAGTGT
 TTCAAGTAA TCAAAAGATC GGTAAATCAA TTCTTAGCG AATTGGATTA GACACTCTCA TTTCAAATGG CAGTTTATG
 CTTACTCAT GTCTGAATA ANCTTAAATA CTTTATGCTA TCTCTCTGCT CCATTATTA TGTAACTACT GGGNCTTAG
 TATCTGCTT TAGNNCATAT AAAATCACCT NCAGGTATTT TCCATCACG ACACAGAGGC AGGCACAAAT TAACC

SEQ ID NO:361: (Length of Sequence = 298 Nucleotides)

ATTTTGT GGGGAGAACA TTTAAGACCA TTCAATGTC ATGATGAAAG CTAATGGGAG AAGGCTTTIN TNCACAAA
 ATTINCTTTA TTTTINCAAC TTTATTGAGG TTATAATTGA TATTAAAAA CTGTACAGAT TTAATGTGTA CAGTCTAATG
 AGTTGGGACA TATGCTTACA CCCNTGATGC TGTACCACA GGCAAGGTAA TACACATATC CGTCACCTGC AAGAGTTTCT
 GTGTTCCCN NIGTTCTCA TTTTGNTTTT TTCAAAAT TACTTTATAG GGTATAG

SEQ ID NO:362: (Length of Sequence = 437 Nucleotides)

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ATGCTGGAAG TGATTTCTGC AGCTCAGGAT TTTTTTTTAA AGCTACATTG AAAATATAGG TTTATTTTTT GTNCAGGTTT
 TNCITTTTATA TTTTTTTTNC GCACAAAGGA GGAGGATTTT CCACTTACTC ATATCGAGGC CAGATTTTTTA AAGCCAGCTA
 AGGCAGCATC AGCTGTGCGG GATTTAAAGC CTATAGCTCA GCTGAAAAAA AAGGTGGGGT GCGGTTTCAT GTAATGGGAC
 ACGATGCCCT TCTTGCTGAA CCACTGGAAA GAGCACAAGG AGCACTTTTC CTCTCCACT GCGCGCCGGA GTTCTCGCT
 CAGCTGAGGG GAGTCTCCT TGGGCGGGGA TGGGATGATC ACTTTGTGG GCTTNTGCT GATGGTCTG GAGGCTGCCA
 AGAAGTTGAG GTGTAATACG CATCAATGTC CGTGGCG

SEQ ID NO:363: (Length of Sequence = 449 Nucleotides)

TGATTTGAAG TAAGCTTCC ATGCTTCACT TAGGGTGGGA AATTTTAAAT ATCAGAGCTT TCTTTGTTAG CAGCATATAG
 TTATGCAAT TATTTAAATC TGCAGTGCCA ATCTTTTITT GATGGGTGIG CTAGACCAC ACATTTAAGA TAATTATTAA
 TATGTTAGAA CCGAATATAT TTATATGATT AGTTTTTATG TGTCAATTTG ACTGAATTAA GAGATGCCCA GACAGGTGGT
 TAAAACATTA TTNCCTGGTA TGTTTGTGAG GATGTTTCCA GAAAAGGCTA GCATTTGANT CAGCAGACTG AGTAAAGAAG
 ATAAAGATAA TACTTGTCTAT GTGTACAGGC ATCATCCAAT CTGCTCAGGA CCCCAATAGA ACAAAGGT GGAGGGAGAG
 TGAATTATGT CTACCCCTT GAGCTTGGGA CAGCCATCTT TTCATGCC

SEQ ID NO:364: (Length of Sequence = 282 Nucleotides)

GACTGTGTAA ATACACTTTA TTTTCCATTT TNCCTGCTG GCGACATGT GAACAGGCAG TGTGCAAAT GGTGGCGGGC
 AGTGTAGGG GCGTGTGGAG AGCCCGTGG GTGCTGCCC CGGTCCCAG GCTTCGTAAC ACTGAAAGT GGCAGCTAG
 GAAGCGGGGA CGGAGCAGGG GTCCCCACCC AGGAAGCGCC AGGAGATTN CTGTAAACG TACTCTACTG GAGGCTCCG
 GAGCACCGAG NGGGGAGTC CCCAGGTCA TGAGGCCCCG GG

SEQ ID NO:365: (Length of Sequence = 349 Nucleotides)

TTCAAGCATT TCTCTGCCT CAGCCTCCA AGTAGCTGG ATTTCAACAC CTGCCACCAC GCCAGCTGA TTTTGTATT
 TTAGTCAAG ATGAGATTTT TGCCATGTTG GCGGGCTGG TCTTGAATC CTGACCTCA ATGATCCGCC TGCTCAGCC
 TCCTAAAGT CTGGGATTAT AGGCATGAGC CACACANCT GGNCTTTTN TCTGTCTT AACTGTTCCC TTTTATTCC
 CTATGGAGCA TCTACTGAGC CCCAGCCGAG AGTAGAAACA AACCTGCTG CTGCTCTNAA GGCATTATA GTCCAGTTA
 GGGGNGACG GGTCACTTAA CCACTTAGT

SEQ ID NO:366: (Length of Sequence = 366 Nucleotides)

ATGCAAAGGA ACAATGGTGT TGGCAAAGTC TTCTTTGAAT ATCAGAGACT GAGTCAATAA AAAAAATAGT AGAAAGGTGG
 CTTTACTAT TGACAAAAGC CGGGTCAA AAAAGTAGT TAAGTCTTAA GCTGAATAT GCATTAAAGT ATGCAGGTAG
 CAAAGATGTA ATAAATTTCC TTAAAAAAG AAATTAAAGT TTTATTTAGA ATCAATTTA CCGTCAATG TAATTGACCC
 NTCTGAGNAT TACAATAAGC AAGAGGAAAT TAAGGTGTTT TGCAAGAGCT GTATTTATAT TACNGTTTTT TAAAAACCAT
 TTTCTGAAT ATCGTAATTA AAGCTCTCC AACTCGTTA AGTCAG

SEQ ID NO:367: (Length of Sequence = 391 Nucleotides)

GCAAAACAA ACAACAAAC CTTTAAGTAC AGTAGTTCCA AAACACACTG CTAAAGTTAT GAAATAATTG TGGATCATTT
 CAAGTAAAA TTATTAAAG AGCAATAATT AACCACAAGG GGCATATAT ATATAINCNC CTAGATTCC AGCAGAAAGA
 CTAGTTTTAA GTAGTAACAT GCACGTGAA GTATTCTACA TTTTCAGTCA CTAAACTTT CTTCTCTCAG ATGGCTACAA
 CTTTTTAATA TTCGAGGINT ATTTTATATC TAAGTAAAG GATTCCAGAA TACTCTGCC CTGCAAAACA GTAGTGTTTT

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AGAAGNCTCT NGGAAGTGT GCTGTTTACC CTTTAGCAAA GNGNTACAAG AGCTATTAGT TGTAAATAATA C

SEQ ID NO:368: (Length of Sequence = 370 Nucleotides)

ATTTCCCTTC TGCACGCGT TCTCTGCTC CCCATTACA TGGTTTACTT CATTTTCCTC TTCATCCATT GGATTACAT
GTTTCTAGG CCAATATTCC AGGNGTGCTT GGAGTAAAG TCCTCTAAA TTCAATTTTG GNTCTGACCC ATCAGGGCTG
CTGAAACCAG CATCTTTTGC AGAAACCAG GCAGCAAAAC AATCATTTC ATCCAAAGTA ATAGTTACA TCCTGTTTT
TAAGTCTACT GAGAACCAAT TTGGCACATA CACCATTTTA AATCTTINCT TAATTTTCATC TTCAAAATCC ACTTTGCCCA
GATCTTCAAC TTACATGGC TTCAATACAT CCAATATGN CACATTATTA

SEQ ID NO:369: (Length of Sequence = 315 Nucleotides)

GACAGGTAAT CTTTAGAAGT TTTTGTGTTA CTATGTTTT NCTCTTTTAC ATCTCCTTGT GAATTTCTGT CCCATTTTGA
AGTCTCTCCT TGTTCTCGAC CAAGATCCCC TIGATGTCT GTAGCCAAAG ACTGAGAAAA AGAGTTATTC TGAATGATGT
AGAGGTGAT AAGTCTGGTA AGAACTGTT GGACATACTC CAAGCAGCAC TGCAATGCAG TCTTTTGGGC TGCTTCTCTA
CTCGGGTGT CTGTCCCTG AGTGACTACG GAAGGGGTCT GGATGATGGT TTCTTCAGAT CCCACAGTGG ATGCT

SEQ ID NO:370: (Length of Sequence = 442 Nucleotides)

AACACTTTTA CACTGCTGGC CTAATTTGTA GATATCTCA AGAAGATTAT GAGTCATTCT CACTACCGGA ATCTGTCTCT
CTATTTTNT TACCAATGGG TGCACCATG AATGTTGGCC ATCAAATAGC AAATACCTC TGCTGTATT TCTACTNIN
GTTTTAACTG GAGCCTCAGC TGAAAAGGTT TATGGTGCTG CTATTCAGTT TTATGAACCA TACTCTGAGG AGAATCTCAC
AGAAAAGCAG AGACTTCTTT TGGGTTTAAAC ATCAGCAGAT GGAAGTCTG ATAGTTCCAA AACAATTCAT ACTAACAAAT
GCATCTGTCT TCTTCTCAC TGGGCTTTT TTTGATGGCA TTCAGGAAGT TTCTGACTTT TCTGTATCG TTAATTCAT
CTCTGGGGCT CATGTCTTC CAATTGAGGA GGATAATTCC CA

SEQ ID NO:371: (Length of Sequence = 441 Nucleotides)

GACAAAGTCA CTCAGGTCT ATTTACCAT ACCCCAAAGT AAAGGCCCAA ACTCCACCGG GGCCAAGTNT TTCTGGNTCA
AAGTACCAT GTCCCAAGA GAAGTCTAAA GACTCACTAG TTCAAAGTTG CCTGCTCTCT GTGAGGAGT
AAAATCTAGC ACACCACCAG GCGAGAGCTA TTTTGGTGTG TCATCTCTGC AACTGAAAGG ACAATCTCAA ACTTCACCAG
ACCACAGATC TGATACTTCA AGTCCAGAAG TGAGACAGAG TCATTGAGAA TCACCATCTC TGCAGAGCAA ATCTCAAACA
TCACCTAAGG GAGGTGGTTC CAGGTCTTCA TCTCCAGTCA CTTAGCTTGG CATCCAGATC TCCANTAAGG NCAAGATAGA
GGTGAGTTCT CAGCGAGTCC TATGTTGAAA TCTTGAATT T

SEQ ID NO:372: (Length of Sequence = 362 Nucleotides)

GAGGTATTGT TGTTACTGGG AGGTTGAAGG GAACACAAAT TCAGTTATAA GTCTTTTGT AATACTAAGA GGGGAATAAT
TAGGGAAGCT AAGAGGGGAA TAATTAGGAG AAGAAAAAA AACTTCAAAC AATTTTCCCT GTAACATGAT TTTACTTGCA
TTTATAAACT GATTTTTTTT TCTAAGCACT CTTTGATAA TGATTAAAGT TGGGGTTACA TTATTNAGG GTCGTCTAAT
ATTTAAGGTG ACTTAAAAAC CTCACACAG TTAATCCCGA ACTGTGAAAA TTCTCATCT TATCATCCCT CTGTTACTAT
CAATTTTCT CACGTACAG ATTCTTTTAT AATTACTTCA TT

SEQ ID NO:373: (Length of Sequence = 306 Nucleotides)

ATCTTTGTG CGTGTGTGTG TGTTGTGTG TGTTGTGTG TGTGTTTTC TGTGGAGTTG AGTTTCTTTG TAAATCTGG
ATATTAGTTT CTGTAGAT GAATAGTTT TGAATATGTT CTCCCATTC ACAGGTGGC TCTTCATTCT GTTGATTTT
TCCNTGATG TGCAAAAAC TTINACTTTA ATATAGTTCT ATTTGTTTAA TTCTGTTTTT CTACCCATG CTCTGAGAT

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CTTAGCCATA AAATGTTTGC CTAGAACAAT GCCCTGGAGT GTTCCCTG AGTTTTCTTC TGGTAG

SEQ ID NO:374: (Length of Sequence = 278 Nucleotides)

GGGTTTGGT TGAGGTTTCT ACCTCATTAT CCAAGATATT TNCITTCAG CCAGCAGAAA GAAAAAGGAG AAGAGCTGCC
 ACCCTTTGTA TCCAGGATGA TCTCTTNTTG AAATCCTTGA TTTAATTATA TCTGCATGAC CCTTTCNCCA ACTAAGGTTA
 TATCCACAGT TACCGGGGGT TAGCACTGGG ACATCCCTTA TTTTANGAAC ATGTCTCAGA AAGTTGCACA AAAAATTCTT
 ACTACATCCC ATTGGCCAAT ACTTCTTACA TGATGACA

SEQ ID NO:375: (Length of Sequence = 321 Nucleotides)

GGTGACAGTA TTTTGTGTGG TTTCTGTAGC TCCAGCCCCC CAGAAGGGAC GCCTACAGTT GGCAGCTATG GCTGTACCCC
 TCAGTCATTG CCCAAGTTCC AGCATCCTTC CCATGAAGTG CTCAAGGAAA ATGGCTTCAC ACAACACGTC TACCATAAGT
 ATCGTAGGCG CTGCCTTAAT GGTAAGAAGT GTGGGGGGCA GGAGATGAGC CTCTGGGCCC GTTATTTAGA CCCAGAGTAT
 AAGAGTTGGG GGATACGGGG ATAGGTGACT CTTTCTCTG ACTTCAGAGC AAAAAAAGA CATGACATTA TAGCAAGAAA
 G

SEQ ID NO:376: (Length of Sequence = 337 Nucleotides)

GGAAAATTTA CAGCATGACT ACATATGTTA GGAAAAAAT ATCTAAAATC AATTAATAA GCTTCCATCT TAGGAACTA
 AAAAAAGAAG AGCAAATTAA ATCCAAAGTA AGAAGAAGAA AATAAATAAT AAAAATTAGA GCAGAGAGAA ATGAAATTAT
 GAACAGGAAA TCAATTTTAA AAATAAATGA AACCAAAAGC TGGTCTTTG AATCAATTAA TAAAATTGAT AAGCCTCTAG
 CCAGACTAAG AAAAAAGAGG TAGGGCACAA ATTACTAATA TCATAAGTCA AAGAGGGGAC ACCCCTACAG ATCCCATGGA
 TATTAAAAGG ATAATAA

SEQ ID NO:377: (Length of Sequence = 455 Nucleotides)

GTTACAATTG AGAAAACATA TTTAATAAAT CATTGTCAAT TTINATAATG TTTCAAGCCC ATTCTTTGTT GATAGCCTCC
 ACATTTATAT GGTTAAGTCA TTGTGTCTGT GTTCTTACC TATGACATTA TTTINATATC CCTTCATTG TGGATCTTAA
 GATGTTGCAG AAGGTTCAIT CCTGTACCCC AATACAGATT CACTTCTTT AGCTGCCITT NCTAGACCA ATATGCTTTA
 AAAAAAATG CGCAAACAAC AAGCAGTGAC AGCGGCAAT TCCTCGAATG TCCAGATTAA TAACTGTAGC ATGCTAAAGA
 AAGGTGTGTG TAAATAGCTG GAGATGGTAT ATGGTCCAGA GTCCAGCATA AAATTATTTT CTTTCTGAGG CATTCCCTCC
 ATTCCCTTAA CCGGATACA TGCATTAGGA ATGTAGCAA ACCCTTGGG GAACC

SEQ ID NO:378: (Length of Sequence = 349 Nucleotides)

GATGGTCACG GGTTTATT ACTTGACATG CTCTATGCTT ACTTGCTTGA AAACGCTCCA TTAGAAAATN AACTCTGAAA
 ACTATATGCC CAATGCTAAT AGTGGGTATT TATTGGTAAC ACTCTTTATC AGGTGCTATG ATTGTTGATG GCTTTATTIN
 CTNCTTCATA TTINCTATAA TTINCTACAAT GAACATGTAT GTATAATCAG ACAAAAAAGC CAAGAAATAT CCATAAGTTT
 TNCGTGTCAT TCATTATCC CATAAATACT TGCTGAGCAC CTGCTGTAAG CCAGGCTCCG AGCCGGCTGC TGGGTGGAGT
 GCCGCACCCC AGGGAACGGT CAGCCCTCG

SEQ ID NO:379: (Length of Sequence = 421 Nucleotides)

ATTTTGAATC ATATTTTACT TATAGGTTTG CTGTATATAC TGATTAACT TCTGAACCTA AAGATTCTCT ATAATTAAAC
 TAGCAGAAAT ATAATCTGTC CCTTACCCAC ATTGTAAGAA TGTCTGGTGG GGGAAATCCA ATATTGACCT TCACATTCCA
 CATGGAAAT CTTTGTCCCC AGAGTGCAAT TAGGGTGATT AAAAATAAGC AGCTTTTGTG AGTCTCAAGT TTGTTCCCCA
 AACAAGCAGC ATCAGCAACT GGAAATTGT CAGACATGCA AATTATCCAG TCCACCTGA GACTTCAGCC CAGATCTATG

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GATCAAAAAT TTTGGGGGTG ACCCTGGGCA ATATGGGCTT TAATAAGNCC CTAGGATGGG TTCTGATGCA TGCTCCAAAT
TTGNGGATCA TTGNINCINT G

SEQ ID NO:380: (Length of Sequence = 311 Nucleotides)

ATTITNAGAT GGAGTCTCAC TCTGTGCCCC AGGCTGGAGT GCAGTGCCAT GATCTCGGCT CACTGCAACC TCCACCTCCC
AGGTTCAAGC AATCCTTCTG CCTCAGCTTC CCCAGTAGCT GGGATTACAG GCACCTGGCT AATTTTTTTT TTTTTTTTTT
TTTTGAGATG AAGTCTTGCT CAGTCGCCAG GNTGGAGTGC AGTGGTGTGA TCCTGACTCA CTGCAGCCTC TGCTTCCGT
GTTCAAGCGA TCCTCTGCC TCAGCCTCCT GAGTAGCTGG GACTACAGGC ATGCACTACC ACACTTAGCT A

SEQ ID NO:381: (Length of Sequence = 442 Nucleotides)

AATCIGTGAA CATATATTTT NATTTATCTT AAATACCTAA GAGTGAAATT NTGGTTTCAT ATGTGGGTAT ATATTCAACT
TTGTAGAAT CTACCAAAAT GATTTTCCAA GTATATGTAT AATGTTATGG TCATCAGANC TACATGATAG TTAGAGTTGG
TTAACATACT CACTGCAATG GATTGACTTT CCTGTGATTC AGCTATCCCA CTCTTAGGCG TATACCCCAAG AGAAACTCAT
AATGTCCTTG TGTGCAGCTT GTATGCTAAT GATTTTAGTA GTATTTTTTG TAATAGCCAN AAGGTGGAAA CANTGAAAC
TTTCACGGAA ATGATTAATG AATTAACAAA ATATTATATA TCTATATATG ATCCATTAAT CAATGAAANG GANTGAAGTG
GTATACAAGA AACACCACAG GTTAACCNIT GAAAGTATAT TA

SEQ ID NO:382: (Length of Sequence = 337 Nucleotides)

AACAGACTTT GGAGCCANTC CCATGTGAGT TTGAGTCTCA GAGTGACTCT GGGCAAGTNA CTTAGGCTTT CTGAGACTCA
CTTCTCCTCT TTATAAATCA GGAAGAATAA TCCATTGCTC AITGAGTTGT TAATNAGACA TAAATGAGAT AGTGTATCTA
AAATGTGATT TGTTAAGTCT AATACGNAAT AGATGCTTAT TTGAGTGTTC CTNATACTCA GGATGGTTCT TGGGATATAT
TTNCCCATGG AACAAAAAGC AGACTACTCA TGACCACTCG GATTTTATGT TCAGCCACAT TAGGGCTCTT ATGGCCTGAC
CTGAAGACCT ACCATT

SEQ ID NO:383: (Length of Sequence = 421 Nucleotides)

GTGAACTGA AGAAGACCAC GACAAACGAT CGCTCAGCCC CTGCTTTTC TTAGGTTTAC AAGAAATGCG CCGGTGGGGA
ATGAACINTT TCATTAATAA AACCTAATTT GTCTTGATCC ATTCCACTCT ATAATAAAC AAAAGATTTT NTAGGCAACT
CGGAATATAG CTCTTTTGAA AGTACTCGAC ACCTTTAGAT AAGAATTAAA ACCAACCTAT GTAACGACA TAATCTTGAT
CINTTAATTT GTAAATATIG ACANITINCT TTCTGCACAT TTAAATCTTA GTTTCCCTTT TGATTTINCT GAAGGTGCCA
AATTCATTT AACINCITTA CAAGTCTTTG TAAATTTTA AATGCATAAA GGGGGGTTGG GGCAGGGGG ACCNCGGANG
TAGTTTAAIT TTCGGAAAGG G

SEQ ID NO:384: (Length of Sequence = 420 Nucleotides)

GGACTCCGT CCCAAGAAAT AGTTTGTCTT GGGCGGAAAG TATGTGGTTC ATCCGAAAAA AAAGAAATCA ATGATTTGTG
GCAGTCTTTC ATGTGCTTTT GGCATTINC ATATCTTCTT TGGAGAAATA TCAATTAAGA TCATTGCCG TATATACATA
TATTAATAAT ATGGGTCAAT TATTATGGCT CATACCTGTA ATCCCAATGC TTTTGGATGT TGAGGCGGGA GNTCACCTG
AGGTTAGGAG TTGAGACCA GCTGACCAA CGTGGTGAAC CCTGTCTCTA CTAAAAATAC AAAAGTTAGC CAGGCATGGT
GGCATGCACC TGTAGTCCCA GCTACCCAGG AGGCTGAGAC AGGAGGAATT GCTTGAACCC ANGAGGCAGA GNTTCCAGT
GAGCTNAGGA TTGTGCCAT

SEQ ID NO:385: (Length of Sequence = 404 Nucleotides)

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GTGACAAATG TTAAGAAATT GTGTGTCAAG CAAAATACTT TAGAGGCCAA TGGGCCACAT GTTTTAAATA TCAAGAGATT
 ACACACAAAA TTTNTTTTCT AGCTTCTTTT GAAAAATCAG AATTGGGAAG ATGTATTCAT GAGTGACTGC TGCCCCCTTT
 GGTTGGGACT CGTTCCTTCA GGTCATTAC ATGGTCATCA ATAACCATTT CCTTGGTCCC TGCTTTTGTC TTGTCTGGNC
 TCTAAGCATT TGAATTTTGA GTATTATAAG AAAACTTAAT ACTTNTCTAT CAGTCACCAC ATACATGTGT TTCTATCTGT
 ACTACGNCIT ATTAAAAGCN TTTTATCAAT AGCCNCCATT TTGGAGGGGG GGATTTCAC TGGTGCCING ACTAGCAAGG
 AATT

SEQ ID NO:386: (Length of Sequence = 267 Nucleotides)

GTCTTGTTGA CATTTACGTG GTATCTTTAG AGCAAACACA GAGTGGTTC ATAAGCTGCA GTGTTTGTAG ATCGGTGGGA
 CTGTGGCATG GCGTAGAGGA GTNACAGTCG CAACTGATG GCCAGCTCT GACCTCCAG GCAAGTGGAC TCCGAGGAGT
 ACCAGCAGAT CTCCCATCAT GCGTCGGGGA GGGCTCTGGG GAGAGTCAGT GGGCAGGAGA GGGTCAGCTG TGCAGGCTCC
 AGGGCCACG CCGTGTCTTT CCGCTCT

SEQ ID NO:387: (Length of Sequence = 384 Nucleotides)

ATTTTAAATG ACATTTTATT TAGGCCAGGG GACCAGGTAA CATTTATTTT AGGAGGAGAG CAAAGGTGT TATATTACTG
 CTCTAATTA CCTAGAAGGA AAGCATTTC TACACTGCCA TTATGATTGG CTGCAGCAGT TCAACCTGGC TCTCGGAATC
 TGCCATTAGC TTGACAGCAT ACAGAGCACC ATATCAGGGT TACTATGGGA AGACTCTATT GTGGCATCAG AAACACAAAA
 AACACTGGAT ACAGTTAGIT TCTGTTGACA GTTTCAGAAG AAAATCCAC AGATTGGACA GGCTGCCTGC TGAAGGGGT
 GTCACTACAC ACAGCATGCC CTGAACCTG GGAATGAAGT TACCCCTATC TGTGGTGATC AGGA

SEQ ID NO:388: (Length of Sequence = 345 Nucleotides)

CTAAGATCAA ATGCAGGCAA AAGTGGTGAA TTTTACCACC TGTTGTAG TCTGGTTTA TAACCTTACC GTAAATCACC
 TAGAACACAG GCTAGCCGAA TCGGGGTGTC TGGTATGGCA ATATCCCGAG AGCTAACCTG GGGCTGGGGC AATGTTCTGT
 GGCTGCTGCA CTGCTCTTA ACAGGCCAGT TTAACACGTC CAGTCTCAG GGCCACATC TCCAGGACAC AGCAGGGAGC
 TCACAGTAGC TCAAGACCG GCCAGCCTC CATCCCCAGC CTGGAGCTG TCAGTGCTCC CAAAGGCTGA AAGAATTGCG
 TCTTGGCTGA GTGGACAGCC CCGTT

SEQ ID NO:389: (Length of Sequence = 156 Nucleotides)

TAACTGCCC CAGCAGTGCA TGCAGGAAGA CTCTCTGGTG CATGAGGTGA CCAATCTGCC GGTGACAGAA GNACTGATTG
 AGCGGGAGAA TGCAGCCAG CTCAAGAAGT GCGGGGAAC GCGGGGGNG CTGCAGTATC GGCCCTCAG GCGACT

SEQ ID NO:390: (Length of Sequence = 364 Nucleotides)

GAGTCTCGCT CTGTACCCCA GGCTGGAGTG CAATGGCATG ATCTCGGCTC ACTGCAACCT CCGCTCCCG GGTCAAGTG
 ATTCTCCGTC CTCAGCCTCC CGAGTAGCTG AGATTACAG CACGTGCCAC CACGCTGGC TAATTTTGT TTTTCAGTAG
 AGATGAGGTT TTGCCATGTT GGCCAGGCTG GGCTCAAACT CTTGACCTCA GATGACCCGC CTGCTCAGC CTCCCAAAGT
 TCTGGGATTA CAGGCATGAG CCACTGCACC CAGCCCAACA CTGGGATTCT TTTATCCGCT GGCTGGCTCT TCCGAGTTG
 AATTGTGTGA CTCTTCCCC TATCTGAGGC CCAATTTTC TTCA

SEQ ID NO:391: (Length of Sequence = 325 Nucleotides)

GAGTGTCCAG ATGATGGCAG TGATGGCCA TCTGGAGCG CTGCTGTAAG GACTGCGT GCAGCAGGGG AGGCACAGCC
 AGGCCTGCGC ACTAGGCAGA GCTGGTGTGG GAGCCAGGAG CAGATGAGAG CCGCGCTTC TACCAAGTTG GCAGTGAGA
 AGGCGCACT CCGGGTGCT GATGCCAGT TCAGCTCCAG ACCCTGGCAT CCCTGGGCTN TCAGGGGCC AGGAAGCCCC

CCACCCCTGC AGGNTTCAAA GGGCCTGCTT CCCACTCCTT GGCCTTTCCC TCCTCCTGGG AACCATTCCTG GGGCAGAGCA
AAGCT

SEQ ID NO:392: (Length of Sequence = 371 Nucleotides)

ACATCCACAC AAGTACAAGA ATACAGAAGC TTCTCTAGTC AGGATGCACT AAGCACCTAA TGAGTAAACA AACTTCAGCA
TATCCTCATT GTTCTCATGG TATTAAATTG AAGATACTTA CCTTCGAACT AAATCTGGTT TTAGAAGAGC TGCTTGTGTG
TCAGCTCCAA CTGGTTGGGA TACAGGCTGT AAACAGTACA GACATAAAAC TTGCTATGAT AACAGTAAAA TTCAAGCTAA
ATATACAAAT TGTACTAAT CAGAAAACAC GATAGTTTTG GTTACCTTGC AAACCTGGTA GGAATATCTA TGTTATTGAA
TGTCIGTATC AATCCTATTA TTAACATTAT TACCAAAGGT AAATAAAATT T

SEQ ID NO:393: (Length of Sequence = 404 Nucleotides)

CCTTTAGTA GCTTCTCTGA GGIGAAACCA CTTCCTTTTG ACCATCTAGC GCANTCTNTC TTTACATCAA CCATTTATTT
CAAGTGTAGT GTGCTTCAGA GTCTGAAAGA GCTATGTCAG AATGGCTGT TGTTGGCTTC TATGGACATT CACATGAAAC
CTGTACAAA CAGTCTCTA GAGACAACCT TGGGTGGATC CATGAACCTCT GTGTCTAAAC TGATCCACTA TGTAGGGTGG
CTATCCACTA CTGCAATGCG CTGGGAGAGC AACAACTCT TCTGTCTGCA CTTTATTTTG GATTCTATG AGAAGGTGTG
TGACATATAT ATAAATNATA ACCTTCCATT AGTGGGTATT GTTCTCTCT GGGGATCCTT CTATCTGCA CTCCTCAGCC
TGGG

SEQ ID NO:394: (Length of Sequence = 416 Nucleotides)

GCCACACACT GGAGAGGGAG AGCTAGAGAG TGAGACAGCA GGGGAGCTGA GGGTGAATGG CTGCTGTTAG AAGCCCTGGA
GACAGCCTGA GGTACAGACC CAGCCCCACT CCTGGCTGTG TGATCTTGAG CAGGGCTGTT AACTTCACTA GGACTTGGTT
TOGGTTTCTC ATAGAGAATA GTACAGTGT GAATTAATA TATATAGCTT GAATAAAGTG CCCAGCTTGT GGGTAGCTGC
TGCCATCATC ATCACCATCA CCATCATCAC CATCACCATC ATCATCATCA TCATCATCAT CATCATCATC ATCATCATCA
TCTCAGGCAC AGGGGCTTTA AGGACAACAT GCCAGTTTA AGGANGAACA CAACTCTCTT CATTTATAGC GNCCTCCAT
CAGTGAGTAG ACGCTT

SEQ ID NO:395: (Length of Sequence = 315 Nucleotides)

AGAGATCAAA TGCTTAAAC ATTATGGAAT AGGAGTGTAT GACTGACTAA CATCCAGTAA TCATTAGGGA AAACAAACAT
GAGTGAGGNC AACTGAAATA ATTATGATAC AATTAAAGGT GGTAGGTAC ATTGTATAG TTCTTTAAAA TATGCATTAT
TCCATATGAT CAGAAATATA AAANGANCTA GACAGATACT GGTAGAGAGA CAATTAATTT AAATTGTGTA CATATTGCTT
GGNGCAAGCA TTCAAGTTGA GTGCTTAATG TGTATCGGTG ACTGCACTGT GCAAATAAAT TTGGGGTTAG TAAGA

SEQ ID NO:396: (Length of Sequence = 409 Nucleotides)

CTCCAGTCT CAGTTAGGG TGCTTCTTC CCCGGCAGAG TTTTTOGAGC TCATGAAGGT GGACTGCCTG GAAAGTACTC
TAGAAAAGTC ACTCCAAGCA AAGTTTCCCT CAAATCTCAA GTCTCCATT CTCCTAGACT TCACGCGGGG CTCACGAGGC
CGGAAGAACT CCCGCACAAT GCTGCTCCCA CTCTGGGGA GGTTCCAGA GCAGGTCCGA GTCTCCCTCT TTCACAGCC
GCACCTCGT GGGCTGCTTC GGCTCCTCAT CCTGAGCGC TTCAACGAGA CCATCGGCCT CCAGCACATT AAGGTGTACC
TCTTOGACAA CAGCGINATC TTGAGCGGTG CAAACCTGAG TGACTCCTAC TTINACCAAC CGTCAGACCG NTACGTGTTC
CTGCAAGGA

SEQ ID NO:397: (Length of Sequence = 414 Nucleotides)

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ACAAGCTGTG TGACCATAGG CAAGTTTGAC CTTTCTGAGC TGCCATTTTC TCATGGTAAA AGAGAGATAC TAGAGGAACC
TGCCCTCACAG GATTGTGATG GAGAATAGAG GAGATGATAC AAGTGAAGCA CTAGGCAGCA CCATACTTGG AACTAAGGGA
AAGCCCGCAG TCAATGTTCA GTATTGTTAC ACTTGCCAGA TTGTGAAAGA GCGCAGGCAA CCCTTGAGTT GAGCTCAACG
CTGGAGCCAA GATCAATGAC AGAAGGATTT TGTTTTGAAA CAGCAACTAA TGACCAGAGA GAGGAAATGG GTCATGAAGC
TCCATGGTGC CTTTCATGAA AATGAAATGT AAGGGCGTGA TTCAGGAAAA AGGGACCACG ATCAATACCA GCAGACTCTT
CCCTATGCAC TGGG

SEQ ID NO:398: (Length of Sequence = 400 Nucleotides)

CATCAAGCTG GGAATGCCCT AAAGTGGGGG CGTGAGGAAG AGAAGGGGTG ATACCTAGAG GCTGGGGTAT CTCTGTCCCA
AGGAGACAAA CTATAACAAG ACCCAGCAAC TGAAGGGTTA ACACCTAGCA CAGACGTATA CCTCCAGGNT CCTAGCTGCA
TTTCTAATTC TGCTTCATCT ATGCTTGAGC ACTACTTGTT GTTAAATATA CTTAATATCA CTCTTAGCTA ATTTCTCTTA
TGTAGATTTT TATTTATTTT TGAGGGCAAC CCAACTTCCA GGCTCTTGGA AGGAAATAGA CTGCAGCCCC TAAGTGTGAT
CAATACTTAA TTATAACAAT AATCACTAAT AATAACTTGT GCTGCTTCAT TGTAACATAA ATGTACACTT TTACATTTTT

SEQ ID NO:399: (Length of Sequence = 324 Nucleotides)

AAATATTTAC AATTTTACAC CTTCAGGAAG GCTCCAAAAT ATAAACACTG TACCTCTCCC TAGAGAAAAA AAAATTATTC
TTCTCTTCAA AAACAGGAAT ACATTCAATTT TTTCTCACTG TGTGAATCAA GTAATTATAC AAATAAACAT CTGAACATT
TTCCITTTTA ATATATTTAT ATAATATATA TTINTAACAG CTTTACAAAT AAAGGCAACG GTCCTTTTCT AATTTTCATG
CCTCTCAACA GAAGGGTACA TGATGCTCCC TGAATTCAG GGNATTTTT TNCTCTCTAT GGTACTTTGT ATTTCACTTT
ACTT

SEQ ID NO:400: (Length of Sequence = 388 Nucleotides)

ATTAAATCTG AGTTTTGTTT GAGCATCTTT CAACATGTAC CATATTTATG ACAATCTCTT TCCATAGGAT CTATCTGTNC
TGCAACAAGT ATTGATCTTA CAGTAAAATT TTTCACAAAT TCATTAGATT CTATGTCTCT TTTTCTGGTA GGAATTTTTG
TGCAGGTAGC TATCTCTTGC CCTAGATTAT TCTCCTTGTT TAGCTGCTGA TTCTTAAACT GGCCTCTAGA TTTCCAGATT
TCTTCGGTGA CAGACTTTCT CTTTGCAAGT NCTTCCATCT CTAATCTTTG AGATTAAATCT TCTTTTGAAA TGTCTCTGCTG
CTCTACTCTT GTATGCTTG GNCCACGTT CAAGCTTCCC ATCTAGCAAA ACCAGGGTTT CTAATATT

SEQ ID NO:401: (Length of Sequence = 339 Nucleotides)

GTTTTATGCT CAAAAACAAG AATTCAGAAG CAAAGGTGGA GAGACTGTGG GTTGGGGAGA TGGCAGGAAG GGGGCAAGGC
CTTGTOCCAG CTCTCCCTTT TGTCTTCTT CTGACCTTCC TGGCCGGAGT CAGGCCTAGG GCCAGGGCAT CTGGGAGGGG
GGCACCTTCG TGGCCAAGGG AACAGTAGAG CTATCGGGG CAGTCTTGA GGGGTGCCCT GGGCAGGAGG GGCTGCAAGA
TTTNCAGGGA GGCAGAGTTC CCCTCCAGA ATCCAAAAGC CGGTAGGGCG GGGGCAAGG CCCCTCGTTT GGCAACTNAG
AAGAGCGGC TTTTGGCG

SEQ ID NO:402: (Length of Sequence = 400 Nucleotides)

TGTCCAGTGT ATGAGGACGT CCCAGCGAGA AATGAAAGGT TCTATGTTTA TGAAAATAAA AAGGAAGCAT TGCAAGCTGT
CAAGATGATC AAAGGGTCCC GATTTAAAGC TTTTCTTACC AGAGAAGACG CTGAGAAATT TGCTAGAGGA ATTTGTGATT
ATTTCCCTTC TCCAAGCAAA ACGTCTTAC CACTGTCTCC TATGAAAACA GCTCCACTCT TTAGCAATGA CAGGTTGAAA
GATGGTTTGT GCTTGTGCGA ATCAGAAACA GTCAACAAAG AGCGAGCGAA CAGTTACAAA AATCCCCGCA CGCAGGACCT
CACCGCCAAG CTTTCGGAAA AGCTGTNGAG GAAAGGGAGG AGGAGGACAN CTTTTCTGAC CTATCTGGG AGCAACCCCC

SEQ ID NO:403: (Length of Sequence = 416 Nucleotides)

AGTTGACTGC TCTGATATGG AGAGACCTGT TAGTCTTGTA TATAGTGGCC AGCCGGAAAA AGCATCTCTT GAAGGTTAGG
GCATTTTGTG AGGAGAGCTC TAGGGCTATA TCAGTCTGGA GGTATGATCT CTGATAAAGA TCATAATTCT CATCTCAGTA
ATCTTCTTTA GAACAAAACA TTCTTCATG TAAGCTTCTC ATTAACTGAA GGCACCTGA TCTGAGATTT TGGCTCTTAG
AATACTCTTT NCTGTGCTC AATCCTCATA TGGCTTACCT CTGAAATATA GAATATATTT CCTTGTGTAG CCTGGTAGAG
TTGGGTTTGT TTTTGTTTTT CAAACAGTAA CTTTTATTTG ATTGTAAAC TTCCAGATTT CTGAGATGCC GCGTTACCAG
TCCTAAGGTT GATTTT

SEQ ID NO:404: (Length of Sequence = 368 Nucleotides)

CCTCINACTC ATGTGTATGA GTAGGGGGA GGGCTTCACT GCCTCANITT CCCCACTTT GGACCTTAA TCTCTCTCTG
ATGCCCTCA GCCCAGCCAG GAAGGAGAGC TAAGACCAAG AGGGATTAA CAGATGCAGG ACACACAGCC TTGTCTCAG
ACCCCCAAG TCTGAGAGAA GCAAAACACT CACCTTGAGA GCCCTCGAC TTGGAGGTGA GGTGCAGAAC CCAGGCTGGG
TGTGTGCTGA GGGGTGGTGG GGGTGGGTGG TGCTGGGTGG CTGGCCTGGG AATACTTTTC TTAAGCTAAG GCTGGGGCTT
AGGGGAGGGC CAGAGGAAGG GTAAATAGTT TGCCTGGGGG GTGCTGG

SEQ ID NO:405: (Length of Sequence = 395 Nucleotides)

GACAGTCTCT CACTCTTACC ACAAAGCTCA AGTCAGCTTG GCCTCTCAAG TGGAGAGATA ATGTTCTTAT AGCAAGAAGT
ACAAAGATTCT TCTGCAGACA AAACCAGCTA GCCAAGGTT CACAACATGT GTACACGTAT AAGTCTGNTG GATCAGAAGA
AATATGTACC CGGGAATCAG ATGTAGCCAG CCCACATACT AACAAACATC AAAGCAAGCC TAGTCAGATT GAGTCCCAT
TGAACAATCT TTATAAAGGT TTCTTCATGT TATTTACAAT TCAAAGTAA TTTACTTTAT AAGCAGCTAG GGAATTCCT
TATTTAGTAA TGTCCTAACA TAAAGTTTC ACATACTGG CTCTGTCCA AACCATGGAT ACTTGAGCTT TGTTG

SEQ ID NO:406: (Length of Sequence = 358 Nucleotides)

GATACCTTAA TCTAAATTTT ATCTTAATTT TTATTTTAT TTCTTCTT AAATTTTAT CTAAATTTT TCTAGCTCT
TTATTACACC AAGACAGCTT CACATTTTA TTATATATTT GTACATCTCA TGTAAGGNAT TACCGTATAT AAGCTAGTGT
CATACTTAA GTAGCCACAT TCATTGAGTA TGTTTTATGT TTCTCTCTG ACTGGATCTC TGATACATTC TTCTCTGTT
TAGCTGCTTT TATGCAAAAG GGCATTATAT GTTTGTCAAT CAACCAGGCT TCTGTGACTG TTTAGAAGGA ATTATGTAA
TATATAATCC NGTGGCCTGT TTCATTGCG CCATGTTT

SEQ ID NO:407: (Length of Sequence = 294 Nucleotides)

CTGTGTATAT TTAGTATCTT TNATTAAGAA GACTGGTGA TATTTGCCCT CAGCTAATTT ATAGAAAGGA TGATCATCAA
TGTCCTAGT TTTCTCTTAA GTGGCTGTG TGTCAGGTA CATATAAAA TNCACTATA CAAATAGCTG GACAGTTGAG
TCTCAACTAT GAAATCTTT TCTGGGATCA AGATCTAAGA AGTTGGTGTG TGATAGAGTG CAACCCATCA TTCTATCCCC
TAAAAATCTG GGGTTCTCA GCCCAAACAT TCNCACTAGT AAAGTCAAGT TTCA

SEQ ID NO:408: (Length of Sequence = 367 Nucleotides)

GGCAAGGAAA GAGAGCTTTA AATTGAAAGG TTAATTCCT AAGAGGAACC TGGGCTGAAT GACTGCAGTG TTATACCTC
CAATCTTGTG AGGTGGGCAT GGAACACTGC TTGTATCACT CTGTGCACGG TATAAATCCA TATATCCACA AAAACACACA
TCCATCCATC AACATATACA TGGTTTGGGA TGAGCAGGTC AATAGTTTTG AGAGGGAGTT TGTTNCCTTTT TTTTCTCAT
TATACTCTTA AATTGTGTG AGTTATCAA CAAACAAACA GANAAATGT TTGGAAAAAC CTTCATACG CCTTTTCTTA
TCAAGTGCTT TAAATATAG NCTAAATACA CACAGGCTTG AGGCAGA

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SEQ ID NO:409: (Length of Sequence = 233 Nucleotides)

AAGAGACAGG GNTCATTTCT GTCAACCTGG CTGGACTGCA ATGGTGTGAT CACAACCTAC TGCAGCCTTG AACTCCTGGA
CTCAAGCANT CCTNCCACCC CAGCCTCCTG AGCAGTTAGG ACTACAGATG GGTGCCACCA TGCCCAGCTA ATTTCTAAAT
TTTTTTTAGA GACAGGGTCT TGCTATATTA CCCAGGCTGG TCTCAAACCTC CCTGGGCTCA AGTGATCCTC CTT

SEQ ID NO:410: (Length of Sequence = 295 Nucleotides)

GACAGGGGGT GGGGAATTCT ACTCCATGGT ATCTTCAGAG CTAGGATAAT GCTCCTTATG CAATCCCACT GCATATGACC
ATGGCAGTAG AACAAAGTTCA ATTACTACAC TGGATGCGTT AAGTGTGCTT TCCTAGCAGA AAGCACCAGG GTGGAGTCAA
CAGTTCACAT GCTAATACTT GGAAGTATTT CTAGAAGGGG GTGCTCAATA GAGGGCAGAC ATGATGCAAG NNCTTCATAC
TAGAAAGGTG TCCTGTGTGT GCATGCACAG CTGGATGGGG GCACACAGGA GCAAG

SEQ ID NO:411: (Length of Sequence = 304 Nucleotides)

AATAAAAAGA CCATTAACTT AAAGTGGTGT TAAATGCTTT GTAAAGCTGA GATCTAAATG GGGACAAGGC AGGTGGAGGG
GAGGCCAGTG TACATGTAAA TGCCACAGC CCAGCATTGG GTTTCCTCC CAAGNCCCA GCACCAACCT CTGAGCCCAA
GACCTTGCCT GAAACAAGC AGATACCGAT TGNITCATCC TATTTATGGA CATGTAGGTC TAGTTGCATT TTCCTNGGG
GGAGGGGGGA AGGTGAATTA TGGTAACTTT TAATGATCTA TTCAGGCAGT AGAGCTCTTA AGGG

SEQ ID NO:412: (Length of Sequence = 250 Nucleotides)

CAGGTGCGCA CTATCACGCC CGGATAATTT TTTTGTGTTT TAGTAGAGAC GGGGTTTCAA CATGCTGCTC AGGCTGGTCT
CAACTACCGA CCTCGTGATC CGTCCACCGC GGCTCCCAA AGTGTGGGA TCACAGGCGT GAGCACNCT CCTGNCACA
GGTNGAGACC CTTCTATAT AAGAAAGAGA AAAATGTCTC TNANTCACA GAGAATGCTA ACAACGGGG AAAGCACAGA
CACAAACCTG

SEQ ID NO:413: (Length of Sequence = 337 Nucleotides)

GTACTGGGAC AAGGAAGGC AATCACAAC AACTGCCCTC AGGAAGAACT CAGTCCCTGA CTGTAGTGTG TCTTCGGGGG
AACCAATGCC ACCNCTCC ATCCCCAGA CGGGGAGGG GCTGCACCT TAAAGCAGGC CATTTGGCCT TCCGGGCTCC
AGGGCCAGCC CACCCGNTC CGCTGGTGG ATCTTCTGGT GCTGCAGGAG GTGCTGCTTC TGGACAAAGC TCTTNTACA
CTCAGTGCAG CTGTAGGGCC GNTCACCCT NTGGATGCGC TGGTNCAGNA CCAAGTCAGA TGGGTGACTG AAGCTCTTGC
CACAAGTAAC CACAGAT

SEQ ID NO:414: (Length of Sequence = 304 Nucleotides)

GGTTTAAGAA CTGCGTTTIG GNGCCCAATC TTTGGTGAAG AATATTTTIG GGTATCTTTT GAAAAAATC CTTTTCAAGG
CAGACAGCAT TTTAATGCTT TGTCTGTTTT TCCCTGTTTG TCAGCTCTGN CACCAGCCTG AAAGATTAA AAATNCAAT
TAATGGAGGN TTATTGTCC TINTACTAGG TCACATTTCT GGGTTTAAAT GAAGNGACAG ATGCTGCTCA TATACAGGAT
TTAGCTGCAG TTTCTTTGGA ACTTCCAGAT ATTCTGAATT CACTCCACTT CTGCAGTCTA AATG

SEQ ID NO:415: (Length of Sequence = 315 Nucleotides)

CGTTGTGGAG TGGGTGTCTT TGGATAGAAG GAGTGAGGAA CTGGGGGAGG AAGGCCTGGG GGATCCCTG GCGGGGCTAC
TTCCTGGGCC CGGNATGGAC ACCTGGNAGC TGCTGCGNTT GTTGGGGTCC TGGCAGGGGT GTGGTGTGGC CCTCACCCT
CTGNTCACCT GCTCCTTCT NACAGTGCCT GGAGAAGTTC CCTGTNATCC AGCACTTTCA AAGTTCGGNA GCTTCTGCC
CATCCATCCT GTCACGTCGG GCTAGGAGGG GNCAAGCCGA AGAGCCACCC ANGNACANT TCCTGTGCCT GCCTT

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SEQ ID NO:416: (Length of Sequence = 343 Nucleotides)

GTATTTCAAG TGTTTTATTT GCTTTCTGTG GTGTCAAATT TGGGGTCTCC TAGAGCCCAG CCCAGGCAG AATCCGGCAT
 ATCCTTCTCC GCCTGGGGGG CCGGGACAC AGGAGTTTCA GAAAAGGCAC TGGCAAAAGT NCTAGGGCGG GGGTCAGGGA
 GAAGCCACAC TGAGCCTGGA GGGACGGGC CCTCCTTCGG CGGCAGAAAA CACAGTCACC TTNGCAGGG AAGGGTTTTT
 NOCTAGAAAG AAATTTAAGA CAAGATAAAA ACCTGAGATG TTAGAGGAGC CCCAGAACC AAGCCGGTGC TNCCCTGGGC
 AANCAGAGAG TGAACTCGGC TTT

SEQ ID NO:417: (Length of Sequence = 202 Nucleotides)

TATTTCTCTG TGAAAAGGGG GAAAATAAAA GGAATAAAT AAAAAAGGCA CAGTTGACAC ACAAAAAAAA ACCAATGATG
 GGGAGGACGG GAGGTGGAGA AGTAAATGGG GGAGGGGNTC CCATTACAGC AGCAGGATCC AGTACCCCGG GATGCTCACA
 TCINTCCCTN ACGTGGGCGG TGTAGCCCCT TCTCCCAAG GT

SEQ ID NO:418: (Length of Sequence = 299 Nucleotides)

CACCAGTTGG CTGCAGAGCT GTCTTCAGGA TCATAGGCCA CTGCCAGAGT CTTGGAGAGA GGGAGAGATG GAGAGGAAGG
 GAGTGAGCTT CGGTGGTCTG ATTCTGGCT CAACGACGCA GGAACCTCAG GTTCAAAAGC AGCTGACAAG AGCCCAGAGA
 CCGTCTTCTT GCGTCCGGC AGAGCCTTCT GGTGGCCCGA CCCCCAGGCA NGGAGGGAAG GCCCTGAAAT CCGTMTTIN
 TGCAAGATT NGTTCCAAG AGGAGATAAT GGCTCAATTT TGTCTTCCCA AGTTGATCA

SEQ ID NO:419: (Length of Sequence = 223 Nucleotides)

ATTGTTGGGA AGGTAACATT TTCCATGGT TTINATTTIN CCCAAAAGTA TTTATGTATT GATTTATTTG GNTCTGACTC
 AGGCGACGTA CTGTAAGACG ATATTACTTT AATCATCTTC ACATCAGTAT TTATGGAATA GCCACAGGTG CCTCATCCTT
 TAGTAGGAGT TAATTATACA TTINCTGGCC GAGTAAACAT NTCGAATGG TATGTATGTA TTT

SEQ ID NO:420: (Length of Sequence = 406 Nucleotides)

TTTAAATATT AAGTTAAGTA TATAACTTGC CCTATGCCAT ATTGCTTTAA TCAGGGGACT GAGCATCACA TTTAGATTGG
 ATGAGTTTGG GAAAAGTTCT CAAACATCCA GACCCATGGA CCTTAAGAAT TACTGCAGAA ATCTCCTTCA ATATAGTCAT
 AGGGAGCAIT AATGCTTTTG TGGTACTAAA CATATTTTGG AGCTTAGATA CAAATCCTTC TTGTCTGAA CTGATAGGGT
 AGGAATTGTT TAGGTGCTTC AAATCCAGAT CTTTCAGGGG TTGCCACCTA AACTCATCTT TATGAGTAAC TCTAGATAAT
 AATACACTTT GGTATCTTCC AAAGTGCTTA TCTAGGCATG GAAAAGTTCA GTAATTATCA TGAGGNCCTG TTTTLAGGTT
 AGGTCC

SEQ ID NO:421: (Length of Sequence = 281 Nucleotides)

ATCCAGATTA CTGACTTGTA CACAATGGAC CATATGINCT GTCCAAAATA CACCTACATT AACTGTGTG GAACANGAAC
 CTGGGCTTTG CAAAAAGAA TTTATGATTA AAATGTAACC CCCCCAAA AAAAAAGAAG CTTAGAATTA AAGGTAGCCT
 TTTACCCAGA TTGTTACCA GNTTGTAATA TTCTAATATG GGTCAATTAAC TGTTACAAA TAATTCATAT TTGNCCTTAT
 GGTTAAGGG CTCCAGATTG AAAAGGTGCT CTGAATCTCT G

SEQ ID NO:422: (Length of Sequence = 220 Nucleotides)

TTTGTATTTT TAATAGAGAC GGGGTTTTC CATGTTGGCC AGGCTGGTTT TGAACCTCTG ACTTCAGGTG ATCTGCCTGC
 CTCGGTCTCC CAAAGTGCTG GGATTACAGG CTTAGCACT GTNACTGTCT GCCTGGCTGG CTGGCTGGCT GGCCTTCTTT
 CTTCTNITT TCINTCTCTC TCTCTCTCTC TCTTCTTTC TTTCTTCTT CTTCTCTCC

178

SEQ ID NO:423: (Length of Sequence = 391 Nucleotides)

CTGTCCTCTTA TCTGGGCAAG CTTTAGACAT ACTAGCTTGG TTGGAACCTG ATATTAAAAG CCTAAACAT GTAACCTTNC
TTATCAGGTT ACTATCATGG GGAACATAAG ATTCTCTGTT TTTTGTATGT NCCATAACTA TACTTTAGTA AGCCCTGATA
TACGGTGTTA ATTTTCTTNC AGTGAAGGAA ACATGAAGAT ATATTTATGT GCACACATAC ATATATATGT ATATATAACG
TATATTCAAA CATGCACTCA GAGGAAGTTA GGGAGAGAAG TTTCTAGCTA AACATGATCT TGTGAAATTC TTCCATATGT
GGAAAAGTCG TCAGTTCATC TGACATAGAG CAATACCATA CATATATACA CACAGGGTGC TATGGTATAC A

SEQ ID NO:424: (Length of Sequence = 379 Nucleotides)

TGGGGAGCCT GAGGCATGAG AATCGCTTGA GCCCTGGNGG TGGAGGTTGC AGTGAGCTGA GACCCCGTCA CTGAACCTCA
GCCCTGGTGA CAGAGCAAGA CTCGTATCA AAAAAACAAA CAAACANACA AACAAAAAG CCTATTATAA AACAAATAGGA
AATGCTGAAG TCTAGTGCAC CAAGACATAC TGAATTTCAA ACTAAATAAA TTAAAATTAT CATGTACATT CCACTACATG
TCAAAACAGG AAAANCCATA GTATTATAGT TGATATGAAA TGANGATTAC ATACANCAGT AATACAGAGN AAACATGAAG
CTGCTTATAT TTATTTGGGN ATAAGGNCAN CAGGGGCCAA TGATTTTCAC TGCAGATGT

SEQ ID NO:425: (Length of Sequence = 448 Nucleotides)

TCCACAGGGC GGCCCTGGGT CTGGAGATGG GCGCTGGGCC CACGGGACGC AGATGGGGCC ACGCTCTGCC CGTGGCTGGC
CCACGTTCTT GGTCTGCACT GCTGCCCTCT CCCAGCACC CCTGGGGCAC AGAGGGCAGG GTCACAGCTG GGAAGAGGTG
GGGGGTAGAA ACCAAGGCTG GCAGAAGTNT AGCCGGGCTC CCTGATAAAT GCTGGAGGAC CCCAGGGCAC CTGCACTTAC
TGTACCTCTT CTGAGAGCAT TTGTATGATC TCATGTCTCA GCTCTNNGAG GCTGGAGGTC CCAGAAAACC AAGGTATGGG
TAAGATTCAG TCTCTGGGTG AGTACCCAGT TNCTGGCTTC TAGATGGGCG CTTTTTCCTT GTGTGTCTTC AAATGATTGG
ATGAGGCCAG GGTGCTCTCT TGGAGTCTT TCTGTAAGGG CAACTGAT

SEQ ID NO:426: (Length of Sequence = 417 Nucleotides)

GCCTGGNTCA TCGCTGTCTT TTCTCTCTTG TCAGAGTCAG TGACACTGAC ATTAAGGTCA TCGAATATCA ACCAGGTCTT
GAGGACCTTG GTGTGTTTCC TCTCTCTTA GTCTCCAGAC CCCAGCCTGT TCATTCTCTG GCTTCTCTTG GCACCCCTTC
CTTGGGGCCA AGCCAAGTAA GAAATCAGCA GGCCCAAGGT GGTGCTTGGG AGGCCGGGGC AGTGCCAGGG GCAGTCTCTA
TACCATCTTC CCACTGGCTT CCTCTCTGCC TGCTCTTAGC CGCCACACAT ATCTCAGCTG TCGAATCCGA TTAGGGNTTC
TGNCAGTGA GCCAGACAAG GAGGCCACTN GGCAGGGGAG AGAGAGACAA GGACGCCAAG CAGGGATTGG CAGAAGGAAG
GTGGAGACAT GGCTCAA

SEQ ID NO:427: (Length of Sequence = 317 Nucleotides)

AACCCCTGTCT CTACTAAAAA TACAAAAAAT TAGCTGGGCG TGGTGGTGGG CGCCTGTAGT CCCAGCTACT CGGGAGGCTG
AGGCAGGAGA ATGGTGTGAA CCCAGGAGGC GGANTTGAG TGAGCCGAGA TAGTGCTCTT GCACTCCAGC CTGGGTGACA
GAGCGAGACT CCGTCTCAAA AAAAAGGGCT GATAATGATA AACAGTGAGC ACTCCGGTCC TTTTCTTAC GTTTTCTTT
TTTCTTCTT CTCCACCCCA CAAGTTTTGC TTTTAAACCA AGGTGTCTCT GCTTGATGGA AATTCACATG CTAGTCT

SEQ ID NO:428: (Length of Sequence = 296 Nucleotides)

GTAATTACAG TATTTNACG TAGAGACGGG TTTCTCCATG TTGGTCAGGC TGGTCTCGAA CTCTGACCT CGGGTGATCC
GCCTGCCTCG GCGTCCCAAA GTACTGGGAT TACAGGTATG AGCCACCGTG CCCAGCCGGT TTTTTTTTTT TTTTGTAT
AGCAATGGAA GAATGGCTC GTACACACGN TAGAGTGAA AGTCCCAGGC ACCAAGGNTT CCCACCCTAG AAGCAAGCTC
AGGGCTTCTT CTTCATCCTT CCAGGGAGAG CACTGAGAGA TGATGGGGG TTGGCA

SEQ ID NO:429: (Length of Sequence = 422 Nucleotides)

GAGGGTTGGA GACAGGAGAC AGTGGGGTGG GAAATCCAAA TCTCAACTGC TTTTGTACTG TCTCTGTCTC CCGAGTGCCC
CANAGCCCAT GCAGACCCCTC TGCTGTCTAT GATATCCTGT TCAGCCCTCA ACTTTCTCTA CCATCCCTGC AACTGGGGTT
CACTGTGAGC CAAACCAGTT TGCTTCTGT TTTCTAAAAG CAGGCAGCCC TTCAGGACTG TATCATTCAA GGCATTTCOC
ACCTCINTTC TCCACTCATA TCCCTTCCCA AACTGCCTTT CTTCATTCT CCGTCTCCAG GGAGAGGGAC TNCAGGCTAC
CACAGNCAAA AATGGTGGTC TTCAGTCCTA CGTAAGNCAA NCTGTGTGAG TGTGTAAGGA CTNAGGGTTG CTCACAAGGG
GACACACAGA NGTGGATGCC AG

SEQ ID NO:430: (Length of Sequence = 332 Nucleotides)

CGGATCAGC ACCCGGGACA GCGCCACCGC CCACGTGCAG GGGTGGGGT CCGGGCGGG CTNGCGCTC GCGGTCTCCC
GGNAGINTCC CGTCCAGCCG TCGAGCAGGG TGCTTGANIN TMTCTGCAGA AAAGACTCTA GGACCCCGCC ACCATGTTCC
CGGAGCCCCC AACCCCGGG CCTCCATGCG CCGANACGCC TCCGACTCC AGTGCATCA GCCACGGCCC AGTGCCCCC
TGGGCCCTGG NCACCATCGT GCTGGTCTNA GGCTCCCTNA TCTTCAGCTG CTGTTCTGT CTCTACCGGA AGAGCTGTGG
GAGGCGGACA GG

SEQ ID NO:431: (Length of Sequence = 413 Nucleotides)

TGTCATTATT TAAGATGGGG GACATCCAAG CACCTGGAAC AAAAAGGACA CTAAGAATGG GAGAAGAATA CACAAAGGGA
GGTAGTACAG GGCCAATAAC AGATTTTGG AATTTTCAA ATTTCTCTT GAAGTAAITT TACAGTCAGT AAATGGAAGT
GGAAAGAGG AATAGAAGAG CATTTCAITG ATTTTTTTT TCTCTGTAC TTACACATCT CATGACCTCA TGTTCOCAGA
ACTTAACACT TAGTGGGTT CTAGTAGATA TTTTGGGTTG AAAAGATGTT TGCTGTTTG CATTTTGTTC TGTTTGTG
GCTAGCCTGT GAATCTAGCA TTGTACGTA GAAAGTGCAT TTCAGATTGA AAGCAACTGG GTTTTGGAAA TGAACITCAA
TAACATATCC CAG

SEQ ID NO:432: (Length of Sequence = 292 Nucleotides)

TTACCGTGT TAGCCAGGAC GGTCTCGATC TCCGACCTT GTGATCTGCC CACCTCGGCC TCCCAAAGTG CTGGTATTAC
AGCGGTGAGC ACCCGCCCG GCCACCATC ACTAATTTTC AAGAAATGTG GAAGTGTCT ATATTINCIT CCCACTCCAT
AGCTCCAACA TTGTTGGCTA TTATGAITTT GGTATTAAAG TGATGCCAAC AATATTTAAT GAAAAAAGA TATAGCAGTA
TAGTTGAAGG AGGAAGCTGA AAGAAAACGG TCCATCNGTG AGGAAAAGGC CC

SEQ ID NO:433: (Length of Sequence = 335 Nucleotides)

TTTTTTTCTC AGCAGAGGAT TTTATTGGTG GTACCTGTG GCACAGGTTA GAGGAGCCGA AGTGCTGINT TTGTGGTGGG
GGGGGGACCA CAAACCCCG CCTGCCCCC TTGCTTACAT AGGCTTCCCG CCTAGAAGCG CANTATGAAC ATGCCGCTAC
GGATCCGGTT GTAGTCTGGG AGCTGCTCAA TGGGGCCATA TCCAGCCACT GCTGGGGCAC TGGTCATAGA TGTACTINGA
GCAGATCTCA CGTACCACAC TGGCATCCAC CTCGCAAAT CGGCTTTCC CATTCAGCCA GGGGGGNATG CGGNGGGCC
ATAGGTCAGG AGGCT

SEQ ID NO:434: (Length of Sequence = 390 Nucleotides)

GTGCTGACT GCTGATTGGA GATGACGTGT ACCCATCCTC TAGACAGTCT GTGCTTTTCC TGTCTTTGGA GCTTCCAGTT
CCACCCCAT CAGTTTTTTT CTGACCACTC CATCTGCCT TATTTCTCTC TCTTCTCTT TGACTGGAAG AGTACTCATC
TTTTCTAACA TCTTTTCAATA AACTGTTTTG ATTTCACTTA TATTGATTTT NAACGTATAA TGTGCTGGTG TTCTATTTCC
TCAGTTAGAT CAGAAGGCC CTAAAGACAG GGCTCCATTG GTGTAAACT GCCATCTCA AGGTCTGGGA CTTGATTTCTN

CTTTTTNAC CTNCACAACA AGGCACTCCT CTGCAACCA GTCGGAATTT CAGTGCCTGT GGGTCAAAGT

SEQ ID NO:435: (Length of Sequence = 427 Nucleotides)

TCTACTAAACA GTAGATTTAT TTTATGTAGA TTTGTTTTTC TATAAAAATA TATTTATGTG TTCACAGGAA AAAAGTTGAG
TTGGTATGTG GGGGTGACTT TCAGATACAT AATTAGTTAA AGGTTTGCTT ATGAAGTTAG AAGGCATCTT AGCTTTTATC
ATTTTCAAAT TTTTCTTCAT AAAAAAGAAC ACCCTGTGAC AAAGATAAGG TAACTGAGAT TATTATTAGC ACTTTAGAGT
TGAGAGAGTT TGAAATAAAA AGGTTAAGCA ACCTGCCTAA TGTTTATGTA CAAAATCAGT GCTGGAGCCA GGAAGAGAAT
TTGGATTTTC CCAACCCCTG GACAGTTCTC TAGGGACTCA TGCCCAACCA CCATCTCTGA GACTATATAC AATCAATTAC
ATTAAAATGA TATTGACAGT AGACTAG

SEQ ID NO:436: (Length of Sequence = 249 Nucleotides)

TCAAATAACC AGGAGGGGGA CAGAAGATGA TGGCAAGGCA GACTGGGCAG TGTNTNTAG ACACAGAACA AAGAATCAGA
ATTGTAAAAA AGANGAAAA CAAATCTNCG CAGCTGCAAC TTAAAGTAT CACCTTTATA GATGGCAGGG ATTTCCATTA
TGCAATGGA ATCTAAGATT TCAATGTGNA ATCTTAGAAT GCAGTTTTAC CACTTGCAGT CTNGTATTTG TGGTGGCCAT
GTGGTGAGT

SEQ ID NO:437: (Length of Sequence = 404 Nucleotides)

GTCAATCACC CTAATCCCTC TTTCACCTTC ACAGAACTTT CACTCTCAA TGTACTTGCT GTTTGTAGAT GCTCCTATAA
ACAGAAAGCT CTGGGAGACA GGTGCTTGT TATCTTGCT CTCTGTCATA TCTCTGGGC TATCACAAGT ACTCAAAGCA
TAGAAGTTCA ATAAATATGT GTTCAATGTA AGAAATGATC AGTGATTCTC AAGCTGCAGT GGCGTCAGGA TAACCTAGAC
AGCTGTTAG CACGNTCAC TGNNNCCAC CCCACAGTT TCAGGTCTGG TCTGGGNTGG GGCCCAATAA TCTGTATTC
TAAAGTCCC CAAGCAATGC TGGTGCTGTT CGTCCAGGGA CCATGCTTAA AGAACCACCC GGAATAGGAC TGGTGGACAA
AAGG

SEQ ID NO:438: (Length of Sequence = 337 Nucleotides)

CTGCAACTTA TACCTCCAT TTACTAAAGT CCCAGTATGT GTCAAAGTAG TTTTCATCC TCACAGCCAT GTTATGAGCT
AAATATCACT AACTTTCCCT TTCAAAGGTG AAATAAACTG AGACTCTCGA AGATTAACTT GCCCAAGTC ACCTAGCTCG
TTAGGAGGCA CAGGTGGGAC TTGAACCCAG TTCTTTCTGA ATTCAAACC TCCAAAATGT CTGTCACATC AAGCTGCTTC
AATGAGATGC TAGAAAATCA GGACAGTGAG CAAGCTGGAG ATAANGAAG ATATGGAGGA ACACGGGAAG TGTGATCCTC
ACACACATAC CCTGCAG

SEQ ID NO:439: (Length of Sequence = 380 Nucleotides)

CATCGTGTAT GAAGGTAGCC ATTTTGTACA TGTTACCTTG TTA AAAACAA AAGAGCAGCA ACATGTTTAG AGTGGTGTCT
ATAGATAGAA CACTGCTGTT ATGTTTAAGG AAAATTGGGG CGGGGCAGA AAAGATCAAT ATGACTAGTT AGAAGACTAT
TAAGGAGAAC TTTGTACATG AATTATGGAT GTAAGAATTA GAAAAAATA GATGATCATG TTCAGAATTT TAGCTTTTTT
ACAATTGTAG TGGAAAAGAA AACTCCTAGA GTAATGAATC AATGGTATCC TACAAAAGA GAGGTGCCAA AAATACCATG
AAATATTATA TTA AAAAAT CACACGNATA GGTAGTTATA ATATGTAAAG GCCAGACTTC

SEQ ID NO:440: (Length of Sequence = 335 Nucleotides)

CCCTGAGCTT TTATTGACCA GTGGACTGTG ACTTTTGATG TAATTTTATT TTTGAGAGAG GGTCTTGCTC TGTCACCCAG
GCTGGAGTGC AATGGGGTGA TCTGGCTCA CTGCAACCTC CGCCTCAGG GCTCCAGTGA TTCTCCTGCC TCAGCTCC
GAGTAGCTGG GACTACAGGT GCACACCACC TTGGCTGGCT AGTTTATGTA ATTTTTTGTG TGCTGTGGA GACAGGGTTT

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CACCATGTTG CCCAGGCTGG TCTCAAATC CTGAATCAG GTGATCTACC CGCCTTCCAA AGTACTGGGA TTACAGGCAT
GAGCCACCAT AATAA

SEQ ID NO:441: (Length of Sequence = 356 Nucleotides)

ACTAATGTGG TTTCTGCTTC AACCTGCATT TCCAGAGGTG CCTGTGGTTC TGTAAATGGT TCTGGCATGT TTATAGGTAT
TACAAAACCA AGTCTTATTT TGCATTTTAC AGGATTAAAG ATGAATAAAG TGATGTGGTT GTGCTAGGTT AGAGTTGTAC
AAATTATACT CCCATCGCGG ATGGTGGCGT CCCAGGCTTA CAACCTGACC TCTGCCCTCA CGCCCATCGT CACGCGCTCC
CGGTGCTTCA ACGAGGAGCC CCTGACGCTG GCGGGCTTTC AGCAGGNNCC CGGCCAACCT CAGTGACGTG GTGCAGCTCA
TCTTCTGGG TGGGACTCCC AATCCCTTT CCCTTT

SEQ ID NO:442: (Length of Sequence = 371 Nucleotides)

GATGATTTTG TATCTTTTTC TATTTATTGA GATAATCAAA TGATTTTGT CCTTCGTCT ATTGATGTGA TGTATTATGA
TCATGTTTAT TGATTTGCAT ATGGTGAGCC ATCCTGTAT TCTGTGTATA AATGCCACCT GATCATGGTA TATNATCTTT
TINATGTCT ATTGGATTG GTTGCCAGT ATTTGTGTGA GAATTTTTC ATCTGTGTCT ATTACGGATA TTGGCCTGTA
GTTTTTTTGG CTGTGTCTT CTTTGGTTT GATATCAGGA TAATGCTAGC TTGTAGAAT GAGTNAGGGA GGAGTTATCT
ACTCTTCAAT TTTTGGGAAC AGTTGCAGAA CTGTTGTGTG TTTTAGAACA G

SEQ ID NO:443: (Length of Sequence = 329 Nucleotides)

TGAATGCCT TTATTTTITN ATTTCCCATC CAGAAACCCC AGTGTGATGG TGGAAGCAGC ATGAAAACAA CATCTCCCA
GGCCTCGCAG TAGAGGCGAA GGAACAGAG CTGCCCATGT GCCTGTNICT AAAGACGCCA CCTCAGGTT GATGTACCT
GTGGGAGACC GGGTCCACCT ACAGACACCA GGTGATGGTC CACCAGCCCC CAAGCTCCAG CTGTCTGAGT CCCCAGACA
CAGGCTCATT AAATAGCTTC GTACAAAAC CCAAGGTGT CCTCCAGCT GGTAAAAAAT TGGGCAATTT CTACTTGGAG
GTCTGCTGT

SEQ ID NO:444: (Length of Sequence = 358 Nucleotides)

TTTTTTTTTA AGTACATAGG TCTTTATTTA AACACTGATT TTTTTTTTAA ATATATACAC ACAAACCTTA GTTCAGCAAG
GCTTCATGAT ATACACCAAT TCCAAAATAA AACAATCAAA TGGTCCAGGT GTAGAATGCC AGATTCTTTT TATCATCTGC
GAGGAAAAGA GAAGCAGGAT GAGGAAGAGT GAGGGAAGGC GGGGACAGGC TCTGCCCAGA NGAGCTGCCG CCTCCTGGCA
CAGCAAACGC TCCAGGCTG GGCCCTGTTC ATATCTGGAG TCGGAGGGAG ACTCCCATCG GCGCTTTGG GACTGAAAGG
CCCAAGGCTG TCACCAGGTC CCGAAGAGA GGGAGGCA

SEQ ID NO:445: (Length of Sequence = 302 Nucleotides)

TCAGAACGGT GAGAAATAAA TTGCTGTGT TTATAAGTAA ACCTGTTTAT GTTATTTTTT TATAGAAGCC TGATCAGAAT
AAGACAATAT TGGATAGAAT ATTCAGGAAT GTCTTGCTC CAATGTTGGC CCCCCTGTAC TGAGCTCTAA TCTACACTCA
CCTAAAAAAT TATAAAATCA TAATAAACT GAAAAAGTCA AACTCTCAAT TGCATCCAG CACAAATATC ACAGNTGNTT
ATTTAAAAA TTATGTCAAG GCCTAAAAA GCTAAATCC NCAGNTCTGC TAATATTCT CT

SEQ ID NO:446: (Length of Sequence = 367 Nucleotides)

ATATATATAT ATACACACAC ACACATACAT ACATACATAC ATATACATAA CCTGTMTTGG GTAAGGCCTA TTGACAGAAG
CCAGATATCT GGGTGGAGT TAGAAGATGG GCAAGGAATT CTATCTCAG AGTTTCAACA CTGGACAAT GTGGAGAGAA
GTCTCCTGGG AAAATGCAGA TGCCCAATAA CTCCAAAAG AATCAGGGAA GTTGGAGTAT TTTTGAGATT TACAGTGTCT

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TTACTTTCAGT AAAACAAGCC ACAGCAACAT TATGCTCTGC AGAGTCTTCT GTTCACCTTT GGGATGGAAA AGAGCTGCTT
CTCCTAGGGN GGCAACTAAG GCCCAGGACC AAAACTCCCA TCTCCTA

SEQ ID NO:447: (Length of Sequence = 295 Nucleotides)

CTGCAAAACC TTCAGCATTT AGCTAAAGTT ATTTCACAAT TCAATGCTTG TCTTGCACTG TCCTGGTCAT TTAAAACTG
GTATCTCTTC AATAGCAAAT AGTATCATAA CAGACCACTA AATTGGGAGG GAAAGTGGTT TCTATTGCAG ATGGATGTAA
TTAAAAITGG TGTAAATCAC AGGTACAGA ATTCTTATCT GGTAAGAATT CTGACTTTTT TTTTAAAGAA GAAAAATAT
ATCCAGATCT GTATCCACAT GCTATTTAAA TGCTCAGENC AAAAAGAAGC CACTA

SEQ ID NO:448: (Length of Sequence = 233 Nucleotides)

CAGAATCAGC CCAAATGCC ATCAATCAAC TGTGCATAAA GAACTGTGA TATATATATA TCATAGAAGT TCAAACAGAA
AAAATACAAA AACTTAGCA GAGGATTGTA TCCTTTGCCG TTTATTTTGA TGACCATGCC ATCTTCTAAT CCCAGAAAA
AAACTGGAAA ACAGAATAAA TATAATTNC TGATTATNCT TATGTAACAT AAATGAATA TATATATATA TAT

SEQ ID NO:449: (Length of Sequence = 341 Nucleotides)

ACTTCCTTCC TCAGGCTCCT GTACCAATCT TCAATTCACT TGGGATGTCC TAGTCTAAAA CATTTATTTT ATTGAAAGG
AAAAATATCA ATTTCTATCT AAATTGGAGT AAGATTCAAT TCAGATGTGT TTATTTACAA AACATAAGTT TGTATTAT
CTGTGTTTAA TTTGATCCNG GAACATTACA GTAAAGAAC ATTCCATGTA AAGAACCAGG CAACTTGGCC AGGCATGGTG
GCTCACACCT GNTAACCCCA GCCTTTTGG GAGGGCCAAG GCAGGTGAAT TGGTTGAGAC CAGGNGGTTT AAGACCCAGC
CTGGGGCAAA TATTGGCGAA A

SEQ ID NO:450: (Length of Sequence = 313 Nucleotides)

TTTTTTTTT GACACAGTT CCAGTCCCTG AAACCTTTAG CTAATCTTTA GCATTCCTTC AATGGTGGGA ATGGCAACA
GATCACCATA GTATTAAATAC TCTGTGTAAT TTTATCACTA GAATGGTTAA TTTCCATATC ATAGTAGAGC TGTTGCAGAT
ATTTTGAAAT CCCATTATAC TCACTGCCAC TTCAAGATTA CTGTAGTTGT TAGAACAGCT GCTAGATCTT ATTACTTAAT
AAATTAATAA AGTGTGAATA TAACTATATA ACCATTTTNA AAATGTTTTT TGGATAACTT TCAATATAAT TGG

SEQ ID NO:451: (Length of Sequence = 351 Nucleotides)

GGGCGGCTC CTGGGCACCC ACCCAGCTCA TTGCGGAGC GGCTCCCTC CTGGGGTTGA GTGTCTGGG CCTGAGTCTG
CAGCCTCAGC CATCTGTTCC CCAACTTGAT CTCCCACTGC TAGTTACAAA CAAATCGCCC GGCTTGTCGA AACCTCCTGG
GCTCAGTCCC CAGTCCCGCG GGGCATCATT TCATTCTTTC CTAGCCGTGA AGGTTCTCC TGAAAAATCT ATTGTTAGTC
TAATATGAAT TTCTAATAT GTGACTTAAG GCTTTCTCT TGCTGCTTTT AAAATTTTCT CTTTGTCTT TGACTTTGAC
AATTTGGCTA TAATGTATGT TGGAGAGGAC C

SEQ ID NO:452: (Length of Sequence = 363 Nucleotides)

GACAAGGGAG AATTCTTGCT TTACCTATGG ACTGGCTTAA GCCGTGTGGC ATCCGAGGAA TGTTTCAAAT GTGTCTGTGT
TTCTCTTTAC ATTCCTTATT GTACCTCATT GTTCAATTCA CTTTGTGAAA TTCCACCTAA CATTTAATTA TTTTAAATTT
CTCCGTCTAG AAGTTATTTT AAGACACTGG AATAAGTGCA GCTTTGTTTA TAACAGCATA GGATTATAAA CAACCTAAG
AGTCAGCAGT GACATTGATG GCACATGCAT ACAATGGAAT ATTCTGTAGC TGTTAAATA ATAANGAAGA TCCTGCTCTG
TGTATTGAT ATGGGAAGGC CCCCCAAGT CTACAGTTAA GGG

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SEQ ID NO:453: (Length of Sequence = 382 Nucleotides)

ATGAGGGAAA AGATGGTGCC ATTGAAGATA TTATCACAGT GCTGAAGACT GTNCCCTTTA CTGCTGGCAC CGCCAGCGT
 GGCTCTGGT TTINCTGCGA ACCIGTTCTC ACTGAGGAAT ACCATTACTA AACTATTACT CTTTCTCACC TGATGCTCTT
 AAAAGATCTT AGAAACCAAC CATACAGACG AGCGGATGCG GTGAGGAGAA GCGTCAGGCG GCGCTTGAT GATCAGAACT
 TGGTTCTGT TAATGGTGCC GAAATAACAA TGTGAACCTG AGACTGGCCT GCAATGAATA CAGGGGTGIG CGTGTTCAGG
 AGGTTTTCTG TTGCGGTAC CCATGATGGC GGGCCINCC ATTGGGCCA ACTTTTCTG GG

SEQ ID NO:454: (Length of Sequence = 391 Nucleotides)

CGCTGCCCTG GTGTGACTGG CTGGAGAAAT AAGTTAGGA GAATCTAGAT ATGGTTGAAT TGTATTGCT GCTCAAAATT
 TGTTCCTTG TGACAACAAC AACACAACA ACAACAACA CAACAACAAC AACAGGTGAA ATTATCTTGA AATACAAAG
 AACGTCGTT GGCTCTGAGA GTGAAAAAAG GAATCCTTAA CAGCTTCAGC TTGCACCAAG AGGATTTTTT TTTATCAGCT
 TCCCTTCATA AGAGAGGATG GAGGATTTTG GAAGAGACAG AACCTGGGAG AAATTTTCACT GAGCTGCCAC TTACTGGTTT
 AACCTACTTC CACAGAAGGA ACCTATTATT GTTNTATTG GGAATTCAGT AAATGTGGGC CATGTAAAGG G

SEQ ID NO:455: (Length of Sequence = 282 Nucleotides)

TTGAGTACTC ATTTGAGGAC TGCAGTCATA GATTAAAGT GTAATCAGTC AACTCAGTGG AATTACTTTC TCCATTAATC
 TTAATGCT TCAGGACTGT TTCAGCCTAA GCCAGTAGCT GGGTTAACC AAATTTGAAG ATTTINCTAG GAGAGTTTGG
 CAGAGGAGA GAGGGGCAAA GCGGTGTAAG GCAGTGTTA TAACAGTGGC CCATGGAATT GATCATGGGT AAAGAGAAAA
 CAAGGACATG CGAGGAGGTG ATAAATAGAN CAAACAAG CA

SEQ ID NO:456: (Length of Sequence = 340 Nucleotides)

CTAATTATG TTGAGATCT TCAATGAAAT TAGTTACTAA TAITTINGCTT TATTCTTCTC AAAAGATTTA ACATGATAAT
 TCTGACCTAA TCCAAAAA AAAAATTCAT GGGCCACTGT TTTCATGTA ATATGTAAGA NCTCACCTTG ATGTTAACT
 CCAACCTTG GCTGAAACAG GTTAATGATC ATTTGTINGTT ATTTATTCT ATAAATAGTT TGAAGTTGGC CAGGCCTGGT
 GCGTCTCGC TGTGTCTCC AGGGTTGGAG TTCCGTGGCG CAAATCTCGG CTTCAGTGCA AGCTTCCGCC TCCCCGGGT
 TCACACCATT CTTCCTGCCT

SEQ ID NO:457: (Length of Sequence = 338 Nucleotides)

ATGAAAAAGT CTCAGAGAT TATCAGTGGG CGGATGACAT TTGCCCTCTG TTGCTATTCT TTGACATTCA TGAGATTGTC
 CTACAAGGTA CAGCCTCGA ACTGGCTTCT GTTTCATGC CAGCAACAA ATGAAGTAGC CCAGCTCATC CAGGGAGGCG
 GGCTTATCAA ACACGAGATG ACTAAAACGG CATCTGCATA ACAATGGAAA AGGAAGAACA AGGTCTTGAA GGGACAGCAT
 TGCCAGCTGC TGCTGAGTCA CAGATTTTAT TATAAATAGC CTCCTAAGG AAAATACACT GAATGCTATT TTTTACTTAA
 CCATTCTATT TTATAGG

SEQ ID NO:458: (Length of Sequence = 370 Nucleotides)

GTTCCTTC GGAGCTGAAC CAAAGAATGT GCACCCTCTT TCTTAGTGC TGTGGTGTCT GCTTATTTT GTATTTGTGC
 TTCCATCCA TCTCTGTGA TCACAAGGCA TTCTTAAGT TTCTAGCAC GACTTGCGA CATCCAGACT CGTGGGGGCG
 CCACCATGG CTCGGTAAGC CAGCAGCCA GGGCACTGGC ACTACCATGA GGCAGTGCAT TAATGTCTGC ATACAGCTGT
 TACCCGACGG CGCACACAAG CAGCAGGTCA ACTGCCAAG GGGCCCCAT CACGGTCACC AGGCGTGCC CAGGTGCAA
 AGGAGGAAAA ACAAAATCC TGGTTCCGT GTGGGACAGT AAAGCAGATG

SEQ ID NO:459: (Length of Sequence = 339 Nucleotides)

ATTTTCCTAG AACTGAAATC ATCTACGGTT CTCAGAGCTA AACTTCCAAA GCTACAGTCA GCAATTTTTC ATCAGAGCCC
AAGGGAGAGG GGCCAGGGTA AAAGAGACGA GACTGTAGAG AGGCATAGAG AGACCACTAG GAAGAGGGTG GGAGAGGGCA
CTTATTTCTC TCTGTCTCT CAGTGGGTTA CAAATCAGAT CTGGTGACAA CACTGAGGGG GCCAGGTCAG GGTATGTNGA
TGAGAAATGA CACTGGAAGG AACATCAAAG CCGCAGCTAC AAAAGAAAG TCATCAAGCC CCAAATAGAA GGGGAGCCT
CCCAGTGCAC CTCAGAAAT

SEQ ID NO:460: (Length of Sequence = 380 Nucleotides)

GAGCTTTTGC ACTGCAAAAG GAACAGTCAG CAGAATAAAC AGACAGTTAG AAGTACTTCC CTATGTAGAG ACACACTCAA
GTGAAAGGGA ACCAGGCTCT ACCACTTGAA ATAAGGAGTA TCAAGGAAGT TGTGGACAGC TTTTAAACT ACCACTGGCA
ACTAGGTCTT GAGGTGGATA AATGAAGAAA TTGGGGAAAT CTCACACTGG AGATGTTTGA TGTAGGTAAA TGANCTGAGA
TTCATTAGGT GTGAAATAAT GAAGTGATA TATAGTTCTG CATATACATG CCTGGGGAAG GTATAATATT CAGAGGCATA
CTATCACTCA ATTTGTATCT GCTGTGGGCC TCAGACAGTA CAGGGGCACT GTTTCATTG

SEQ ID NO:461: (Length of Sequence = 317 Nucleotides)

GTCATTAAGA AGCCTTTATT GGGTTATATT CAATTTGACC TCCACCAAA TTAAGCGGA AAAACAAAA AAATAAGAAA
TCCAGTAAA AGAGCCCCTC AAGATTTCAT AAACACAAA CTAAAGCTGC TAGTTAATAA GGAAATGGCA GAATTTTCAG
AGCTGTATAA TACAAAAATT CCTGTAATTT AAGCAGATGT TTCTCTACT GATGACAAAT CTCCAACAC AATGTGAAGT
TATGCTACTT GGGATATTG TAGGCAAAAC CATTTTTTTT TTGTACAAA ACAAAAGCAA GGGACNTGG AAAAAA

SEQ ID NO:462: (Length of Sequence = 261 Nucleotides)

AAAAAGGCCA TAAATCCTTN CCTCGTGGG GCTTACCTTC TAATAAGGAG AGACAGAGGG TNAGAAACAA ACAACAAAA
ATATGTNAGT TAACACAGAG TGTGGAGGG GTGAGGTGC TATGGGAGAA ACGTGGAGCA TGTCAAGNG AGAGCAGGCA
AGAGGGCATT CTGGAAGGC CTAGGANGAT GGTGACATTT TACCTTCATA TCCACCAACC CCCAGCACAA AGCATTTTCC
AGAGGNAGNC AGAGGAGGGC A

SEQ ID NO:463: (Length of Sequence = 387 Nucleotides)

ATACAAGTAC ATCCAGGAGC TATGGAGAAA GAAGCAGTCT GATGTCATGC GCTTCTTCT GAGGGTCCGC TGCTGGCAGT
ACCGCCAGCT CTCTGCTCTC CACAGGGCTC CCGCCCCAC CCGCCTGAT AAAGCGCGCC GACTGGGCTA CAAGGCCAAG
CAAGGTTACG TTATATATAG GATTCGTGTT CGCGTGGTG GCCGAAAACG CCCAGTTCCT AAGGGTGCAA CTTACGGCAA
GCCTGTCCAT CATGGTGTTA ACCAGCTAAA GTTTGCTCGA AGCCTTCAGT CCGTTGCAGA GGAGCGAGCT GGACGNCAT
GTGGGGCTCT TGAGAGTCTT GAATTCCTAC TNGGGTTTGG TGAAGATTTC ACATACAAAT TTTTGA

SEQ ID NO:464: (Length of Sequence = 397 Nucleotides)

GTTAGCCGTG GGCTGTGGC GTCCCTGAA CGTACCAGGT ATTGTGGCTC CATTGGCTGA GGATGCTTCT CCAGCGAAGG
AGGCAGGGAG CCGGGAAGT GGGGTGGGT CGGACACCG ACAGCAGCTG CCAGACCAGC CATGCTGCGC TCAGCTCCCT
CAGGCTGTCA CTCTTAATCA TCATGTCAT ATCTCTGGG CGTGTGATC ACCATCAACG ACGTGTCCCC CAAGCTGCAG
AGGACGCAAA TCCAGCTCTC CAAGAGGCTC TGTGGCCCT CTCACATGG GCTTNAAGGT CAAGGGTTGG GGGCACGTT
GGACCGNCCT TCCTGNCCT TINGAAGAAG ATCTCCAAN GTNCCGGCT TCAGCTTCTT CCGGSCCTCT TTTGGCA

SEQ ID NO:465: (Length of Sequence = 320 Nucleotides)

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GACGACATTT ATTCCCTTTTC CAAATGTTAC AGTAAACCA GGTGGAAGAG AATGGTTTGA GCAGTTAGAA AAAAAAAAAA
 AGTACAAATC TGGGGTTTGG CCATTAAAAG TTATTTACAA CAGTGGGAGA AAAAAAGNCA AGAAGTTGTT TCACATTACA
 GACCTCCCCC CACCCCAAAG CTAATACTT GCTTACCAAG TCAAAAAGA GACACAGTTG ATTCACAGGC TGGAGGTTTG
 AACTTGAGTA AGACATTTAT AAAAACCTAG ACGGGGCACT GTCCINCCA GCCCAGGTGC CACTTAGGCC AGCACAAGGG

SEQ ID NO:466: (Length of Sequence = 352 Nucleotides)

CATTGTATTT CCTTCTTCA AATTAAATTAC CTACCAAAAA ATGGAAGA ATTTTACATG CACTTTAAAA TAGTAAATG
 GAAAGTGAAT TTTTAAAAA TATGCATTAA AAGTTTACTT TAATTTCCAG TGGGACTTCC TTTATGAAAT TTTCATAAC
 CTCCTCTGG AGTATTACAA GATCTCCAAC ATCTCATAAA CTAATTGTGA TATTAGTGA ACCATAAGCA AATGTATATT
 TTTAGTGGAA ATAGATTATG AATGAAAGCC AAGCACCTTA CTTTAAAGCC AAAATATGAG ATTTTCCATT AAAAACCAT
 GTCCATAAT AGGGAGGGG GTTTTTTAAT TT

SEQ ID NO:467: (Length of Sequence = 352 Nucleotides)

TGAAAGGCAA AAAATAAATA AATAAAATA AATACCATT GCAGAGACAG AGAAACCATC AGAAGAAGAC AAGCAAGGTT
 GTTGAATTA CTACGCTAG AATTAGAAT AACTACTATG ATTAAAACGA AAAAGGCTTT AATGGATAAA ATAGATAGCT
 CCTAATAACA GATAGTAATA ACATATGGGT AATGTGAGCA GAGAGATGGA AATCTTAGAN CAACAACAGC AACACGNC
 AAGCGTTAGG GATCAAAAC ACTGTAAACA AAATTAAGAN TCCCTTTTAT GGGCTTNTTA ATAGNCTNGG ATACAGGTAA
 GTAAAGAATC CCTGTGCTTT AAGGAGCCAT CA

SEQ ID NO:468: (Length of Sequence = 336 Nucleotides)

TGACATCTGC ATCTTACATT ATTAAATGCA AAGGAATATC AAAGACTCCT CTGCTAGAAC CATTTTTATT CATAAAGTCA
 CATTATCAAT GTAGAAGTCT TGTAAAAATG CTACCTGAAA TGAATTATGT CCGTCTTCCC ATCTGGCTTA CAAATTCCTT
 GAGGAAGCAT CTGCTCGTA GCTCTTTATC TTTCTATTTC CTAATACAGG GACAATGTAT ATGGAAGAT AAATGTGTGT
 AGGTGTATAA ATTCTCAATA AATATTGCT GAATTAGATT GTACAGTTGT TATCTTTTAA GNTAACTCA TCCTGAGGTA
 CATTTTATTA TTGGGC

SEQ ID NO:469: (Length of Sequence = 156 Nucleotides)

GACCGATGTA GAATCTGTG TGGAGACGTT CTCCTTCA ATTCAATGGG AAGNCTTT TCTGGCATGA NCTCTCGAT
 GTCTAATGAG CTCTGAGCAC CATCCATAAG CTTTNCACA TTCTTANAT ATAAAAGGTT TCTCTCCACT GTGAAT

SEQ ID NO:470: (Length of Sequence = 350 Nucleotides)

TTCTCATGTC TGAATTTAC ACGCACAAGT CTGAAATGTG AAGGTTCTT AATGTGGTT TTATGGTTCG TGTAAGATTT
 TTGGGAAATG AAGGGCTCTT CATTAGGATA AAATGGTCTT AACTTCCAG AGAAGAATTT CCTGACAACG TGGCTGAAGT
 TAGATACAAA TGTTAATATA GAAGANTGCT TTTATTTGAA TTTCTAGCAA ATGGTTTTCA ACTACTTTAA ATATGACCNA
 CTTGAAAGTA TTATCCINT TTTAAACTA CTTTNTATGT ATAGATCTAA GGTCTGCTTG AAGCTAGTAG GTTAAAGTGT
 TTGAGAAATA AAGCAAGAT TTTTNCNTTA

SEQ ID NO:471: (Length of Sequence = 270 Nucleotides)

GGAGCAGGGC TGGGAGTCAG TGGGAGATTG GGAGTCCAAG TCTGGACATG TTACATATGC TATGTCTATT ACAGATCTGA
 GTATAAATGT GAAGTGGAGT TTTACCACGT GATTCTGAAG TTCAGAGAAG AGGTACAGGT TAGAGATAAA GATTINGGAG
 TCACAAATAT AAAGATGTAT GACTTNATGA GATTACCAAG GAAGTGGAGA TTAATAGCAA AAAGAAAAGT TTCAAGCTTC
 AAGCCCCGAA GCATTCTAAT GTTTACAGCT

SEQ ID NO:473: (Length of Sequence = 345 Nucleotides)

TTTATTGTAG TTCAAATACA TAAACTGAAC ATTCAAACAT CTTAAAATTA AACTTTAGCA ACAAAGTTTA ACATTCAAAC
AGGAGTATAG TTTACAAGAA ACACCCAGAA AGGTAATTG TTGTCTAATC CAGAATATTG ATAAAGATCA CTTAATGGTG
AATAAAATAT GTTTAACCAG TGGTCTATT CTGGCCAACA TGTTAGTTAT GACCGTGGTT CCATACCTGA GAAGAAATTA
CTACATAAAT CTTCTCTTAG GCTAAACAAC ANGACTCGGT CTATAATTCA GAGGGGNTAA TCAAAGCACG TAAGGGTACC
AAAATAAAC TAATCTGATC TTTAG

SEQ ID NO:474: (Length of Sequence = 433 Nucleotides)

CAGAATTAGA GCTGTACCCC AAGGGGAAT TCTGTCTAG GAGACAGTGA GTNCTAAGTA CACTCTGGAC AAGCACCAGA
CACAGAAGCT GCCTCAGTTT GTGCTCCCC TGCAAAGCAG AGCCTGAGAC AAGGATTTGG GTACAAGGAG TTTCACTCAA
TATTATATTT CCAAGATGCA CCCATGCTTT ATATGGCTAT AGTGCAATCCA TTTTACTGCT TTATACTTTC CATTAGGTGA
CTATAATTAGT ATATAATTAT AATTCCTAGG TCTTTTGTG CTCTTATTTG TTAATAATTA TAAACTCCAA GCCCATGTG
GTAGATTGCT ATTTCTCAGA GATATTTTCT GCTCCTTCT GGGGACAAT AATACTNTTC TCCCATCAAT GGCAGATGIN
GGGCTTGINA CATTTTCTGG TCAATGGAAT GAG

SEQ ID NO:475: (Length of Sequence = 427 Nucleotides)

GATATGGTTT GTGTGCCAC CCAAATCTCA TCTAGAATG TAGTTTCCAT AATCCCCACG TCGTGGANGG GACCTGGTGG
GAGGTAATCG AACCATGGGG GTGGTTACCT CCATGCTGTC CTTATGATGG TGAGTTCTCA TGAGATCTGA TGGTTTTATA
AGGGACTTTT CCCCCCTTTG CTCGCACTT TTCCATGCTG CCACCACGTG AAGAAGGATG TGTTTGCTTC TCCTTCCACC
ATGATTTAAG TTTCTNAGG CCTCTCCAGC CATGCTGAAC TGTGAGTCAA TTAACCTCT TTCCTTTAA AATTACCCAG
TCCAGGNAT GTCTTCATTA GCAACCTCAG AGCAGATTAG NCACAATTCC ACAACTTGA GAATNGGTGT TCAAGTTTCA
CTCTGGCCTT NAACAACCCA AAATTTA

SEQ ID NO:476: (Length of Sequence = 351 Nucleotides)

CGCGCTAGG GCGGCNGGGG GTCGGGACG CGGGCTAGG GCGGTCATG TGGCCGCTCA CGGTCCCGCC GNCCTGCTG
CTGCTGCTGT GCTCAGGCCT GGCCGGACAG ACTCTCTTCC AGAACCAGAG AGAGGGCTGG CAGCTGTACA CCTCAGCCCA
GGCCCTTAC GGGAAATGCA TCTNCACGGC CGTATATCCA GCGCAGAGTA CCTGCTCTCG AGATGGCAGG AGTCGGGAGC
TGCGGCAACT NATGGAGAAG GTNCAGAACG TCTCCAGTC CATGGAGGTC CTTNAGTTNC GGACGTATCG CGACCTCCAG
TATGTACGG GCATGGAGAC CCTCATTGG A

SEQ ID NO:477: (Length of Sequence = 333 Nucleotides)

GGTCTCACTC CGTCATCCAA GCTGGAGTGC AGTGGTGCAA TCCTCAACTC ACTGCAACCT CCGCTCCCGG TTTAGTGTAT
TCTCATGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGCA TGAGCCACTG TGCCAGCTG GGATATAGAA TCTAAGAGTT
GATGTGGAA AACACGTGAA TCTATTGCGC GCATTINTCA TTTAGCAAGA TGGCAGCAGT CCAGCTGTTT TTTGACGCTG
GAGATGAAC TTTAAAAATC CCCTTCACAC TTAATGTACT GACCGAGACA GAAGTACCTG AAAACAGCT NTGCATGGCA
GGCCCGGCAA TAG

SEQ ID NO:478: (Length of Sequence = 458 Nucleotides)

ACATGTTAAA ATAAGGTAAT ATGAAATAAT CTAATAAAAA AAAAAGTGCA GAACCAAGAC CTCTGTGATA ATCCTATTTA
AAAAAATAGC TACAATTTTA GTTAGAATGT TTCCCTTATG AGAAAGCATT TTCTGCATAA CTTTTAATGT ACTGACCTTT
TCCAAGCTTG CTGAGCTGGC CTTTGTCTCA ACTCACTTGG GACACCTTC CCTGTGCTC ACCAGGGCCC ACCCCAAGTC
CCAGTTTCTC TAGGGGTCT CTCGGGACCC CTTGAATCCC TTNCTGATT TGTGCTGCCT TTAGCAGNCG GAATGGGCTG

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GCAGACCACC CTACATNCTC CTGTGTGTGG GGACACTGTC AGGNTGTCTT CCTTGCATTG GNTCTGTCTG AGTTTCTCTAC
CATGTGNCOA GGATGNGTTC CATAGTCGGG GCATNAAGGA CTTAGGATGG GCCCAGTC

SEQ ID NO:479: (Length of Sequence = 360 Nucleotides)

GCATCGTATC TNCITTAAGA AAAACACTTC TTCAAATCC TACACTATGA AAACTGTCT TCAGGAATTG TTTATTGGT
CCGTTGATCT AGTGAGGCTG AGTTCTTAAA TCTTTCACCC CCAAGTTAAA AATTGGAGCA ACAAAACAAA ACTCCAGCAA
GGCATAAATA AGATATTAAA GTGCATATAT ACAATACCAG AAAAGTTTAG ATTGGGAACA GCAAAAATTT CTAGTGCAAA
AACTGCTTTT GCCAGCAAAG CTCCCTCTCT GGAATCAAAG GGCTACAGTA AAAGTTAAAA TTGGAACAGG NITTAAGCAAT
GTCTGTCTTT AGTCACAAGT NAATATATGT GCATGCACCC

SEQ ID NO:480: (Length of Sequence = 322 Nucleotides)

GAAATTAAGT CTAAGCAAAA AGAAAAATAA AATGACGAGT TACTGGGTGC AGCACACCAA CATGGCACAT GTATACATAT
GTAACAAACC TGCCCATCAT GCACATGTAC CCTAAAACIT AAAGTATAAT AAAAAAAAAA AAANTGAAAA GCTTCAGCCA
GAGGTACAA TGCTCACAAC TCATTGACCA AAATATCTC ATACCCGINT TAGAGCANGG NGCAGGAAAG CAAAACCATT
CTTCTTACTG TTCCTGGNA TACAAGTTCC ATGAGGGGAT GCAATTTNIN TCTTGGNCAC TCCTGTGTCC TCAGGGTATA
GG

SEQ ID NO:481: (Length of Sequence = 369 Nucleotides)

CCTGGGCAAA GCATTGATCT GGTAGCCTTG CTCCAGAAGC CTGTTCTCA CAGTCAAGCC TCAGAAGCCA ACTCCTTTGA
AACTTCCCAA CAGCAGGGCT TTGGCCAAGC CCTGTINTTC ACAAATTCG AACACAACAA TCAGATGGCA CCAGGGACTG
GCAGCTCCAC TGCCGTCAAC TCCTGTCTC CTGAGAGCCT GTCATCCGTC CTGGCTCAG GATTGGAGA GCTTCACCA
CCAAAAATGG CAAACATCAC CAGCTCCAG ATTTTGGACC AGTTGAAAGC TCCGAGTTTG GNCAGTTTT ANCAACCNC
CAAGTACACA GCAGAATAGG TACAAGTCAA CCTACAACT ACTACTTCT

SEQ ID NO:482: (Length of Sequence = 255 Nucleotides)

GAGAGAATCT CGCTGTGTG CCCAGGCTGG AGTGCAGTGG CGCAATCCCG GCTCACTGCA ACCTCCGCTT CCCGGTTCA
AGTGATTCTN CTGCTCGGC CTCCCAGTA GTTGGGATTA CCGGTGCACA CCACCGCACC CCGCTGATTT TTTGTATTTT
TGGTAGAGAT GGAGTTTAC CATGGCTGG CTGGTCTGA ACTCTGATC TCAGGTGATC TGCCCGCCTC AGGCTACCAG
AGTNCITGGG TTACA

SEQ ID NO:483: (Length of Sequence = 353 Nucleotides)

CTGGATAATC AGGGCCATGT GCTTAACAG GATGTAAAGG GGAAGCTCAT GATTAAACAT GGGAAATATG CAGCAAATTG
CAAGACCTGA GCTTAACGC ATAATTAGAA CATAATTTN CACTTCTTCC AGAGCATCAG CCAAGCAAAG GACTGAGAAA
TCTGCAACCC AATGTCTCTA AAAAGAACT TAGGCTTCAC ATTTGTGACA TAATTTCTTT TAAATGAAT ATAAATTTT
ATTTTINATA TTTGTAGAGC ATAGGATGAT TGAAATCCAG TTGTGTTTT ATCTGACCTC CATATCTAAT ATGGCTAGTG
CCGTACTAC TCTACAGAAC GCGCAATAAG TCA

SEQ ID NO:484: (Length of Sequence = 371 Nucleotides)

GACCCAGAAA ATGGAGCTAG CTACATTTCT CACACTTACT GTCATAATTA CATGTTTATA TTCTATTAGT TGTAATTATT
TTTCACTAT CTCTCATTA GAATGTTATA CCTATAGAGC AGATAACCATT CCAGTTTAA TTTTGTGCC CGACTCCTAG
TAAGTACGTG ACCIATTACA GGGAACTTAA AACAAACAAA AAGTCTGCTG AGTCTGGGAT GTTTAAGGA TCGAAGGAAC
ATGTGGTCC AATTGCTT CACAGAGGT TACCTCTGCT TTTCTACCGA ATGIGGAATT GCTCCCATGT GGATTTTAA
GGAATCCAG TCTACCTCA GGGGAAGNC CACATGTAAT GCCAGAGGT T

SEQ ID NO:485: (Length of Sequence = 376 Nucleotides)

GGTCCGACGC TGTGTCAAGC TCTGCACCGG CCATGAGTAT GCAGCCAAGA TCATCAACAC CAAGAAGCTG TCAGCCAGAG
ATCACCAGAA GCTGGAGAGA GAGGCTCGGN TCTGCCGCCT TCTGAAGCAT TCCAACATCG TCGTCTCCA CGACAGCATC
TCCGAGGAGG GCTTCCACTA CCTGGTCTTC GATCTGGTCA CTGGTGGGGA GCTCTTTGAA GACATTGTGG CGAGAGAGTA
CTACAGCGAG GCTGATGCCA GTCACGTAT CCAGCAGATC CTGGGAGGCC GTTCTCCATT GTAACCAAAT GGGGGTCGTC
CACAGAGACC TCAAGCCGGA GAACCTGCTT CTNGCCAGCA AAGTNCAAAG GGGCTT

SEQ ID NO:486: (Length of Sequence = 396 Nucleotides)

TTGATATTG TGTCTAATC CAGCTACTTT GAAAGCTAAG GCAAGGGGAT TACTGTATTA ATAAATTCTC ATGCTGTAA
TAAAGACATA ACCAAGACTG GATAATTCAT AATGAAAAG GTTAATGGCC TCACAGTTTC ACATGGCTGG GGAGGTCTCA
CAATTATTGG AGCAAACAAG AGACTTTGTT CAGGGGAATC TCCACTTATA AAACCATCAG ATCAGGTGAG ACTTTTTTGC
TATCATGAGA ACAGCATGGG AAAATCCAC CCCCATGATT CAATTACCTC CCACAGGGTC CCTCCAGGG ACATGTGGAG
ATTATTACAA TTCAAGATGA GATTGGTTG GGGACAGAGA GGCCAAACCA TATCAATTAC TTAAGGCTAG GGGTTT

SEQ ID NO:487: (Length of Sequence = 375 Nucleotides)

TGATTAAAT AATAGAGTTT AGTAATATGG ATGAATATAA GATAAATATT TAAAAAGCAG TTGTATTTTT ATAGCCCAGC
AAGATAAAGT TCAAAATATG ATTTTTTATA AAGATGGATT TACAATAACA TCAAAAATTA AAATGCACCT TGAAATAATA
AAGACATGTA AACCCTTTTA TGANGACAGA TTTTTTAANG CATTTTTTAA AATNCTTTTT CATGACAAA TAATTATCCN
TATTINTGGG GTACACAGTA ATGTTTCAAT ACATATAATA AATAGTGATC AGATCAGAAT AATCAGCTTA TCCATCATTT
CAAACTTA TCATTTCTNT GTGTAGGGG CCATTCAACA TCCTGCTTCT GGCTA

SEQ ID NO:488: (Length of Sequence = 323 Nucleotides)

CACCTGATTA ATGATTGGNT TAACAGTATA TAAACAAGGG CCATGGTTTT TTTTACTAAA GTAGGTCTGA AAGATCAATA
TAAATACTAA TGGGGGCAGG GAGGAGTGTT TTATACCCCA AACTCCAATA TTCCAGCTCT GTGCTCTGTC CTATTATTAT
AATTTGTAAA AATCTTAAACG ACGCAGTGAT TCGAGTTTTT GTAACCTCAA TGATGTGTTA GAGGACAATG CATCTTGGTT
TGAAGAATTT GCTGTATCCG AAGGCCGGA AAGTACTCGA CCACGATGAT TAAATACATA AAAGGATGGG TGATTCTTAA
CCG

SEQ ID NO:489: (Length of Sequence = 326 Nucleotides)

TTACCTTTTA CTCGATCAT AATCTCCAC CTGCTAAGA GGTTATTTAT TCCTTATTTA GAGGGCCTCT ATTGCCATGT
GCCTGGAATT ATTATATGCT CATCACTTTA TGAAGAATAA AATTGTCTTT TCCTGCTTTA AAGTTACATT CGTTCTTCCG
CTCAAATCCT GATCTGGTCC ATTAAAGAGT GTTCGCAGAC AAAGTTCTG AAAGATTAGA GAAGAATCCC CCCCAAGATT
GCCCCAACAC TGAACACAG ACAAACTTA TTTTATTTAA ATAAGNGAC AGCTTTCTAA AAGTATACAT TCCTCTAATA
AAAAA

SEQ ID NO:490: (Length of Sequence = 186 Nucleotides)

CTCAGATCCA TCAAGATGTG AAACCTGCAA GTTTGGTGCA GAGAAGGTAC ATGGGTTTCC TTCTTTCTC ATCTGTATTC
CCTTTTCTGC AATTATTTTC TTTGCCACAT ACTAGCCAGC AAACCAGGCA CCTTTGCCAG AGCCATTAAG CTACAAAAAT
ACTTAATATT TTAATTTGAA CTCGTC

SEQ ID NO:491: (Length of Sequence = 347 Nucleotides)

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CCTGTACTTG TGTCCCTCA TTCACCTAAT TATGATACTT GCCTGGCATC TTGCAGGTTT CTGATGCTGT TACCCAGTAA
 TAGACCAAGT GCAGACAGAA TTTCATTCTT GCTTTATTAA GGCACAGTCT TGAGAAACCC ATTGGCTTCA CACACAATTA
 ATTAATTTNT GGCAACAAGC TACTATATTG GCTTGCATGT CACTTTCACC TCTCTGGGCA TTAGTTTNTCT CTAATATTTA
 TAAAAGAAGG ACATGACTTT CTAAGGTTCC TTGCAGTAAT TATGCAGTTC TATTCTAATA GATGCTTAAG CATAAAACCC
 ATTTTAATAC TGTCCTAAGG ATCCAGG

SEQ ID NO:492: (Length of Sequence = 320 Nucleotides)

GAATTTGGNT CCAAAGTTTG GACATTGCAT TTCATTAAATA CGTCCCTTAA GTTTATTTTA ATCTGTATTT TCCTCCTCCC
 TTTTGTGTTT TTGTAAATCT CTTTTTGCTG TTGTTTTCGG TTAAAGAAAC CATGTTTTTTT TGTCTCTGTG AGTGGCTCCT
 GTTCAGAATT TTAGTGATTT CATCTGCTGG TATCATTTAG CATGTTGCTC TGTCCTCCGT AGTACTTTAA ACTAGACGTT
 AGATCTAGAG ATGTGATCTA CTTCGGTAGG ACTTTGTCAA GAATACTTGT AAGTAGGTAT TTAGGTACCA GGGGNCACAT

SEQ ID NO:493: (Length of Sequence = 339 Nucleotides)

TGCCAAGTTT GCTGGAACAT TATCAGATGG CTAGGGAAG ACGATGGACA ATCGGCATCA GTCAGAGCGG GAGTACATCA
 GGTACCATGC AGCCACAAGT GGTGAACACC TTGTAGCCGG CATCCATGGC CTGGCTCATG GTATCATTTG TGGACTGACC
 AGTGTATATA CTTCGACAGT GGAAGGTGTG AAAACAGAAG GGGGTGTGAG CGGTTTCATA TCTGGCCTTG GAAAAGGGCT
 TGTGTGCACT GTAACCAAGC CANTGGCAGG CGCCCTGGAT TTTGCATCAG AAACAGNCCA GGCGGTGAGA GACACAGNCA
 CACTTCAGCG GCCCCAGGN

SEQ ID NO:494: (Length of Sequence = 366 Nucleotides)

GTAGGCCCTT GGAAGTAAT TAGGATTAGA TAAATCATC AGGGTGGGGC CACCATAATG GGGCTGGTGG CTTTATAAGA
 GGAAGAGAGA CTTGAGCTGA CACGCAATG CTTCCTCTCT TGCTATGTGG TGCCCTCAGC CATGTTAGGG CACAGCAAGA
 AGGCCCTCAC CAGATATTGG GGTGGTCTTN GACCTCCAC CCTCCAGAAC TGTAAGAAAT AGATTTTTTT ATATATTACC
 CAGTCTATGA TATTCTGTTA CGGNAACAGN AAACAGACTA AGACAAGCTT CTTAAACAAA TTGANAATAG AGTTTTAAGA
 TNCAGACTTT CATTCGCTTT AACAGGGGCC AAGAATATCT ATTTCA

SEQ ID NO:495: (Length of Sequence = 384 Nucleotides)

CGAGGAAGGC AAGAAGCGCA GGGGGTGGCC CGCNTGGCGT CGGTGGCCTC CGCTCCTGCT CGCAGCCCTT GTGGTCAGAG
 CTGGATACAA GATTCAAGAC CCTTCINTTG CTGTINACCC GCTCCAGGTT GGAGCCACAG ACACCCACCG CCACCCCGGC
 TGGGTCTGCT TCCTTTCTTG TGCCTTTCCC TCCAGATGC GGCTCAGAC CTAGAAGCTC AACCCCTTA TGAGGGCCAC
 GTCTGGGGT AGCTCCTGAC CTNCGACCTT ATGTCCAAAT TTCACACCCA TGGTTTTTCA TTTGACCCGG CCCCTTCTCG
 CTCATAATGA CAACNAGCTT CCTTTGAGAG GGATCAGAGN CCAATTGCAC AAGGAGGAGC CGCT

SEQ ID NO:496: (Length of Sequence = 342 Nucleotides)

TACCTTAGTA AATGCAATTT TCGAACAGGC CCCATCTTC AACTGGTATA GCATCTTCCA CACCTGTAG CCTTCAAACA
 TCACCTGTGA AAATACTGCC CATTCATGT CATGTATATC TGCCCATTTA TGGGAGCAGT GAGTGAACC CTGACAGTGA
 CGGACTTTAA GCTGTACTTC AAAAATGTGG AGAGGGACCC GCATTTTATC CTTGATGTTT CCTTGGAGT GATCAGCAGA
 GTGGAGAAGA TTGTGNCAC AGAGCCATGG AGACAATTCC TTGGGTATAG AGATAGTGTG CAAGGATATG AGGAACCTGC
 GGCTTGCTTA TAAAACAGGA AG

SEQ ID NO:497: (Length of Sequence = 273 Nucleotides)

190

GATTTATTAA GTATCCCGA AAATATAAAC ACAAACCAGT AAAAAACAAA ACCGTAAAAC GTCAGGCCTG GAGCTGCAAT
 AAGACAGAGA CAGGAGCAGC TCACACGTGG CTTAGGTGGG GAGGACGAGG CCATAAATAC TGCAGGAGGG CGGCAAGGGA
 GCCCTAGGGC GAGGGGAAAG CAGGGTGTGG GCAGCGAGAT GGNTCNNGG GTTTAGACAC TGCTGGCTTC GGNCCCGGCC
 GGCACCANGA CTCTCACTTC CAGCTGCGAG CAG

SEQ ID NO:498: (Length of Sequence = 319 Nucleotides)

ATTCCCAAAA ATAGAGTCTG GACCTCTTAC CGCTACAAAT TCCAGGTTCT CAGGTACAGC CTGAGAGTAT GCAGATATAA
 TACACCACAG ATGATTCTCT CCTTTTITG TTTTITTTTT TTTTITTTTT TTTTGAGACA GAATCTCATT CTGTCAACCA
 GGNITGGAGTG CAGTGGGCTG ATCTCGGCTC ANTACTTCTC CCGCTCCNG GNTTCAAGCA ATTCTCTGCT CTNAGCCTCC
 CGAGTAGCTG GGNCTACAGG NGCACACCAC CATGCCCATC CAATTTTTGG ATTTTAAGTA TAGTTGGGGT TTCACCATT

SEQ ID NO:499: (Length of Sequence = 408 Nucleotides)

GAGAAATACC TAATGTGAAT GACGAGTGA TGGGTGCAGC ACACCAACAT GGCACATGTA TACCTATGTA ACAAACCTGC
 ACATTGTGAC ATGTACTCTA GAACTTAAAG TATAATAATA AAAAAAGAGA ACCTTTAAAA AAAAATAGAC TGCCAGATAG
 ACTAATAAAT AAAAAAGAGA GGTGAAATA ATCATAAATG ACTAAGGGGA TGTACCCCA CAGAACTACA AAAAACAAAC
 AAAAAACCT CAGAGACTAC TAAACACTC CTATGCACAC AAAGTAGAAA ACCTAGAAGA AATGGGTAAA TTTCTGGAAA
 CATACANCA CCGAAGATTG AACGAGGAG AGATTAAAGC CCTGAACAGA CTAATAATGG NGTTTCAAAA ATTGAATCAG
 TAATAAAA

SEQ ID NO:500: (Length of Sequence = 474 Nucleotides)

TTTTATTTTT TTCAGTGTA CTGTTTTNA TCTTTGATTG ATAAAAATGA AAATGCCAAA ATGAGGGTTA GCTTAATTTA
 AAGTATAAGC GTAGTTAGCA GCTTTTNTA ATCACTCTG TCATTTTAAA AAATAATCCT CATAGGAGTA TAAACAGAGG
 AAGGAGAAAT GGAGGATGGG CTTAAGAGAA AGAGTATTTT ACAATGTCT GCATAGCAAA TTCAATTCAT CTACCTAGTA
 GCTCCTTCG TGTAACTA CAGGTGTCT CCCCTCCAAA AAAAAGCATC TTTTAGGAAG AAACACCTT AACACTACCT
 TTAGANGATT GAACTTCCAG GGATAGGTG TTTGAGAGAA TCACCAAAAG CCATTTTTTAA ATGAATTTTT AAATTACGGC
 TTTCTCATTC CTTATAATAG TGTAGCAGCC ACCTTCCCTC TACTATGGAA CTTTAAACCA ATAATCCAAG TCCT

SEQ ID NO:501: (Length of Sequence = 378 Nucleotides)

GTGGTGGCGG GCGCCTGACC TCGTGATCCG CCCGCTCAG CCTCCCAAAG TGTGGGATT ACAGGCGTGA GCACCGCACC
 CGGCCCTTGT GTACATTTTT ATAAGAGAAT TTTTTAGCT AGGAGTTTCA AATTTTTAAA GTACCATTG AATGATCTTA
 ATTTTNTTTT CATGACAACA CATTCAAAA TGAATCATGC TTATGTACTA AGAGGGAAAA TGTATTTAAG NTAAGGGTGA
 GAGACTTAAG TTATAGGTGA CCTTAGAGAC CTAAGGTGAG AGACTTGACA CATGGAAGGA GTACATTAG GGTCTACCTC
 TACCTCAATT TAGTTAGCGA TTTACTACAA TTTAGAGCT AACAAAGTA AAAATAAA

SEQ ID NO:502: (Length of Sequence = 448 Nucleotides)

TTTTGGAGAT GGAGTCTTGC TCTGTTGCCC AGGCTGGAGT TCAATGGCAC AAATCGGCT CACTGCAACC TCCGCTCCC
 AGGTTCAAGC AATTTTCTG CCTCAGCTC CCGAGTAGCT GGAATTACAG GCACACGCCA CCATGCCAG CTAATTTTGT
 TATTTTAGTA GAGACGGGG TTTACCATG TTGGCCAGG TGGTCTCAA CTCCTGAAT CAGGTGATCC ACTCCCTCGG
 CCTCCCAAAG GGTGGGATT GCAGGCGTGA GCACCACGNC CAGCCATGAT CCTTAACTT GTTTTAAGAG GTATAATAAC
 TGGAAATCAT GATGCTCTT AAGGAATACC AATTGGATG ATTATTGATG TATTTAATC CATCCATATG NAGTAGAAAC
 AGTTTTTATT AGCAGAAGGC AATTATATTA TAGCTACACA ATATAAAG

191

SEQ ID NO:503: (Length of Sequence = 446 Nucleotides)

CTACAGTACC CATCTCCATT TTCAGAGAGC TCCGATGGAA ATTTCTATGA ACTAATCTC CTGCACATAC TTTGGTACAA
 GTGGGCTACT GGAGCCACCT TCCTTCGTTT AATCAAACAG CATTATTTC A GCTTATTTAA TGAACACTAT CCAAGATACT
 TGGGGGACAG AAATGAAAAG ATGGGGAGAC CTGTCAAACA TATGGTACTA TGTCTATGCA AAATAACATT GGAATGTAGA
 TTCACAGTGG AAGGCAGGGC AGGCATGGAA GAATTCGAG AATGAGTGTG ACAGCTCTA CCTGTACAG CTCTTCAAGC
 TCCTGCTGGA AGCGGTCACT CAGCAAATCT ACTAGCTGGC TGCGGGCAA AGTCCGCCCG GCTGGAGGAA AGTGAATTCC
 GGGATTTCAG GAGCAGGTAG AGGGCATGCG GCCCAGCCCT CAAGCA

SEQ ID NO:504: (Length of Sequence = 248 Nucleotides)

TTGCTCTTCT TTCTACCAT GGAACGTCC TTCTCAGGGG ATTTTINAGGT CTCGGTGTTC CTGTGTTTCT NAATAGGCAG
 TTCTCGCTG TCGGCTAAGG GCTTATCCAG GNCAATATCC AGAGCCCTGT AGGGGTCTGT GGGGTCTTTG TCATCTCTGT
 CGCTGGGCAG AGCATCTCTA GGCATCTCCT CTGTNACGAT GTCCACCTGC TGGGCAAGGG CGATGTCTTC GTGCTCTCC
 GTGGGCAA

SEQ ID NO:505: (Length of Sequence = 367 Nucleotides)

GCTATGTTC CCAGGCTGTT CTCAAACCT TGAGCTCAAG CAGTCCTCTC ACCTGTCTCC CAAAGTCTG GGAATACAGG
 CATGAGGAC TGTCCTGGC TTAATAAATT TAAAAGATT TGTGTGAAC CATCTGCTGA TCATGGAGCA GCAGAGAAAT
 TTATTGACAG ATTTTCTAGG GTCACTACTG ATGACAATCT GNTGCCAGAA CAAGCCTGTA ATGCTGATGA AACATCACTG
 TTCTGGCATT ATTGCTCCAG AAAGATACTG ACTACAGCTG ATGCAAAGGC CCCTGTAGGC AGTAAGGATG CCAAGGACAG
 AATAACTGTT CTGGAATGTG CTAATAATGC AGCAGGCAAT CAATAAG

SEQ ID NO:506: (Length of Sequence = 419 Nucleotides)

ACACCTGGTG ACTTTAGCTA TGCCTATCAA AAGCCTGAGG AAACAACCAG GTCCCAGAT GAAGAAGATT ATGACTATGA
 GTCTTATGAG AAGACCACCC GGACCTCAGA TGTGGGTGGC TATTACTATG AGAAGATAGA GAGAACCACA AAATCTCCAA
 GTGACAGTGG CTACTCCTAT GAGACCATTG GGAAACTAC CAAGACCCCT GAAGATGGTG ACTATTCTTA TGAAATTATT
 GAGAAGACCA CACGGACCCC TGAAGAGGGT GGGTACTCAT ATGACATAAG TGAAAAGACC ACCAGCCCCC CGAAGTGAAG
 TGGTTACAGC TATGAAAAGA CTGAGAGGTC TAGAAGGCTT CTGGGATGAC ATCAGCAATG GCTATGGATG GACTCTAAGG
 ATGGTTGGCC ACACAACCT

SEQ ID NO:507: (Length of Sequence = 417 Nucleotides)

GAAACTATT TTACTTAAAA AATATTCTAT TACTTCAATG TCATGTCTGT TGAACGAGGA ACTCAACATG CTTATTINCC
 TTTGGTTCCT AGAAAAACCC AAGTCTAACC AAATGTATGC CACAAGGAAC TGCCAACCTG GTTAAAGCTT GGTATTTCCT
 TGGTTATCAC CCTATTTCCT GGTTAGGAC CTGGGGTTTA ATAGAGACAT TTACATAAAA AAGGTATTTG GTTAAACAA
 GAAATATGCA TGCNCTTCCT TACCACCTTC CTGGGAAAGA ACTGCTTTTT TTNCTTCTT TCTGTGAATC TTGTCAAGA
 CATCTGTAG TTTAGATATA TGGGCTGCTT CTTTTTACC CTCAAGCTTT TAGGTGACAC TTATAAAGGT GAGCATATCA
 TTCTATAAAA TGGAAGA

SEQ ID NO:508: (Length of Sequence = 308 Nucleotides)

CTGTTTAGAA AAAAAAGTGC AGCTCACTGT CAGCACTCAT TGAATTTTGC ATAAACATGC TTTTGGAGGC TGAAGCAAAT
 CTGACTGATT TTCAATGTGA AAATAAAATA TAAANCTGT TTTTAGAGTT ATTTATTAAC AGAACTAACA TCAGAATTAT
 TTGAATCACC AGAATAATCA ATTCTGGAAA AATCAGATTC ATCAGATTAA TCTTTGGCCA ACAACTGTTC AAGAACAATG
 TTAACATCTG CATGGCAATG CTACATTINC TAGGATTTGA CATTTTCAGC AATTGAGGAA TTACTATA

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SEQ ID NO:509: (Length of Sequence = 370 Nucleotides)

TTTTTGAGAC GGAGTTTCAC TCTGTGTC CAGGCTGGAG TGCAATGGCA TGATCTCGGC TCACCGCAAC CTCGGCCTCC
 CGGGTTCAAG CGATTCTCCT GCTCAGCCT CCCAAGTAGC TGGGATTACA GGCACGCGCC ACCACGCTG GCTGATTTTN
 TATTTTATAGT AGACACGGGT TTTCACCATG TTGGTCAGGC TGGTCTCAAA CTCCCGACCT CAAGTAGTCT GCTTGCTCA
 ACCTCCCAAA GTGCTGGGAT TACAGGCGTG AGCACTTGGC CTGGCCGTG ACTGATTTTT TTTCATGTAG AATTGTCAAC
 ACGAGAGATC ACAAGTGGAG CACTTTGAAA GACCGTCGGT TGTGTGCAG

SEQ ID NO:510: (Length of Sequence = 446 Nucleotides)

TCTTCTCTCT TACTTTCTCT CCTTCCCTCC TTTCATATGA GAGACTCTAT ATGGAAAAGG AAGCTGAAGT GGCTTGACA
 CGATATAGAA AAGCCATATT ACTTTCCTAA GACTGGTAAT CCGCAATAC CTAATGCAGC ACATGGCTAG AGACTCCACA
 TTGCCCCAAC TTCTCTGCTC ATCATTGTC ACTGTTCTGT AAATTTCCCA GTCCCTCAC AGAAAGCACA TGGCACCATT
 TAAAATGGCT GCTCACTCTC TAAGGGAGGT CTCACAGGCT GGTAGTGAGC CTTGTCCCA TAGTGAAGTT CTCACAAAT
 GGGGAGACTT CTCCAGGAG GAGGGGAGGC CTGGAGATGG GCATGCAGTG GGCAATGTCA GCTGCCCTCC AGGTCTCTGC
 TTGCCCTTTT TCCGCCCTGG GTCAGTATAC AAGCTTTCGG GGGACA

SEQ ID NO:511: (Length of Sequence = 354 Nucleotides)

AATACCAAAC TGAACAAACC TGCTCTTTC TGGTTAAAC AAAAAAAAAA AAACAAAAC AAACAAACA AAAAAATCAC
 ACAGTTTAAT AAAGANGCAA CTCTTCTCT TTAGGNGCAA GGACTACCA TCTAATTCCT ATCTATTGAG CCCCCAAAG
 CTCCCTTCAG AGTCTTCTCT CTCTTTATCA ACAGAAAAGT CTAGAATGAN TATTCACAGT TTCTAAGAA AACCAGAAAG
 CCTTTAAGCA GCATTAGCTG GNCATATTTT TG TCTCTAT AGTTACCATA GATGAGTACA GCTTTTACT AGGGGGCTGG
 GAGTTCAGAC TCACAGCAGA GACTNCTGGG GTAG

SEQ ID NO:512: (Length of Sequence = 374 Nucleotides)

CATGTATATT ACAAAAAAGT TCGTGTACCA AAGTCTTAT TAGACTTTAT TTTGTTTTTT TTAATTTTAA AAATTTTTTT
 TGTTTTTTATT TTTATTTTTT AAATTINCTC TCCTCGTGGT GACTGTCTATG TGATTGTCTC AGTTTCTGGA CCAACAAAC
 AACTAATAA TTTTAAATCT GAAACAGTGA TTGTCCCTTT NGGCTCATGT ATGTACAGGG TGATCAGAAG TGTACCTGT
 TAGCAAAAGT GTCACGATG TGCACCTCTA CCGAAACTGA TACCCACGAA CTACGGAATC TAAACAGACT ACACCCTGTA
 ACTGCGTATT ACTGTCCACA ATGGGGATCT CCAAAGACAA AAGAGGTATG GAAA

SEQ ID NO:513: (Length of Sequence = 463 Nucleotides)

ATCAGCAGAT TTINCTCTGG TGAATGTCTA ATCAGTGIGA TTCCATAGG CTATACITAC CTTTGGGGG CTAATTGCCA
 ATNATGTTTG GTCAGTATCC TTGCAACAA CAGAGTGACA GATTCTAAAA ATGACTTTGC AGGCCAGTAC TAAGAAAGAC
 ACCAAGGTTT ATGGGCTTGC AAATAAAAAG TCATAACTT CCTGCCCTA CTTACCAAG TGAAATCGAG TTCCTCACAC
 TTCTGCACAC AGCTCTTTCA GGATCTTCCC TTCCCTTCAA GGCTGTCTGA TGTTCAGTT AATTGTATTG TATTGTATA
 AAGTGCTGAG TGTGAGTCC TCAAAGAAAT TTACTTTTCT TCTAANGCCC CCTTGGGACA AGAAAGTGGC AACCAGGCAA
 ATGATTGATT ACTTATTTGT TTGAGTATCA CTTTGTGATT GTCCAGGGC TGTATTACAC ATA

SEQ ID NO:514: (Length of Sequence = 396 Nucleotides)

CCAACCCAGA AAACGTTTCC TGGCTCTCTA CTAACAGTAA AATGTGCTGA GCCCAAATTT TCTGCTCTAA CATGGGTCCC
 ACGGACCTAT CAGTCTGCTC TGGGGTGCTG ACCTGCTGGG TCCTGAGCAG GGTCTTTCCC TAAGCATCAC TGTGGGTTTG
 GAGACAGCTG TAATGTGTGC AGCTGTCAGC AGAAAGTACA ATGCCACTGG GCTACATATG TCCATATCAT CCACCACCAT

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TTCCCACTGT AAAACCAAAG GCTGCAACTG TGAACAAATG TGGACTTCCT CAAAGGACAA ATGAGGAGAC TGAAGGCTAC
ATTTCCTCCT TTGAGAACCC ATTAGAGAGT GTCTACAGTT ATACAACAGG TTCTGCAAG ACCCTGTGGG TAACTT

SEQ ID NO:515: (Length of Sequence = 416 Nucleotides)

ACAAAACAAA AAGTAGTAGC ATCTCTGTGA GAGGTACACA GTTAGAAAAA TGATTCCACA CACGAGTAAA GAGATTTACC
AGGAAGAGTC TTGTTTTCTA AAAGTTGATA CAACTAGTAG AAAAATACCTT GTCAGTGGTA AATAGAGCAG AAGTAGAAAA
AGCAGTTAAT CTATTAGATC AGATCAGAGT GTAAGGCAGG TATATCAGGC CAAAGGTGAT AAGACAGAGC AGAAATAAAG
TATGTGTAAT TCATGCAITTT NCTGACTCAT TTATTTATAC ATTGATACTG TCACTTATAA ATCAAATCTT ACAGGTCAGG
TTCTGTGCTA AGCTCAGGGG NTATAAAANG AAATANGTCA CTGCACTCGC CCTCACGGGG GCCCACCAGT ATAAGTGGT
AGATAGTTCT ATAAAG

SEQ ID NO:516: (Length of Sequence = 368 Nucleotides)

CCCATGGAGC TCGAGAACAT CGTAGCGAAC ACGGTGCTAC TCAAGGCCCG GGAAGGTGGC GGTGGAAATC GCAAAGGCAA
AAGCAAGAAA TGGCGGCAGA TGCTCCAGTT CCTCACATC AGCCAGTGGC AAGAGCTGCG GCTCAGCCTC GAGCGTGACT
ATCACAGCCT GTGCGAGCGG CANCCATGG GCGCCTGCTG TTCCGAGAGT TCINTGCCAC GAGGCCGGAG CTNAGCCGCT
GCGTCGCCCTT CCTGGATGGG GTGGCCGAGT ATGAAGTGAC CCGGATNAC AAGCGGAAGG CATGTGGGCG GCANTAACCG
CAGAATTTTC TNAGNCACAN GGGTCCTGAC CTCATCCTG AGGTTCOC

SEQ ID NO:517: (Length of Sequence = 393 Nucleotides)

CCCAGCGCCT GGAGAGCCAG CCTGCGAGG TGGGCTGGG GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA CCGCGGCGG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGGGACGACC ACATTGCTCC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTCTCTCGCG TGCCCTGTCA GCGGCTCATG GTGCCAGAG
AGGAATTTTA GTGGCAGCAT TCGGCTGTG ACGNCACCGA AATTNCCAGG CCACTCCAAG TCAGAAGGGA CCACCAGGAA
AAGTCAGGAA GAGAACCACC ATCAAGGTCC CAGGCTCTTT TTTGTGACA AGGACTTAGA GGGGTTTGGG TCT

SEQ ID NO:518: (Length of Sequence = 465 Nucleotides)

CCTTCTCTGC AGATAGAAGA GCCAGAATGG GAAAAGOGAA GATCCATCAA CCTGTCTGAG CTCATTGATG TTTACAGTGA
TGGTGTGAA CTACTCCAGA TGGTGAAGGC ACCAGATTCC AACTGCAGCA ACCTTCTGAT TACAACCAGA CAAAGCCTTG
TNCTGCTTCG GGGGCAAAAT CTGACACCTT ACTGGGCATT GAGACTTCAA GGCCTGCGCA GCAGCCTACT CCTGGATATT
TCACTGATGA TCAGACATTA GACTTCCTTC TGCAGATACA GGATGGAGTT GGGATGAAAA AGATGATGGT TGTGGATGGT
GACTCTGGGC TCCATTGTTT GGAGTTACCG TGCTCCGTTG TCACATGAAA GAAAACGGCC AGCCACCTCA GCAGTTACTT
TCAGACCAGA AGTCTGTCTT TCCTCTCTG GGGCCGAAGG CTGTGTCAGT TGCATCTTCC CAATT

SEQ ID NO:519: (Length of Sequence = 382 Nucleotides)

GGCCGTCGGT AACAGAAAAC TCAGTGCATA CTTGCTGTT GTTAGGTGT CAATATAGTC TTTCTGTAGG ATGGATAGCA
TGTTTGAGAG GTGCCAAACA AGAATTTTG GGGTTAGTAG TGTGTCITGT GGAGGGTATT ACAGGACTGT GTAATTATAG
GACTCTAACT TGACATGGCT TGGCACCAC TTGCAGCTAG TGGGTACAGG GTACAAAAGA TGTTAGAGAA AAGCTCTACA
GATTACGTAC TTCTGTGTCT TCGTATGCTC AACACTGTCC TTTGTCTC CATGAAAGAT GAAGGAAGCA AATTTATGTA
TGINCTTTCT TTGACCTTCT TTAATCCTCT GATACTTTTT AGATTGCATG ATTTTACTAG GC

SEQ ID NO:520: (Length of Sequence = 304 Nucleotides)

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CCAAGACTGC TGATCTCTAA ACAAGCATCA AAACCCGAAG CTCATTAACA TCAGAGTGAG CTTCAATAAG GTGANCACTA
CAATGATGTA CAATTACATC CTAATANTTC ANTGCCCAAG AGCCCTGTAG AACTATTGCA AGGCCAGGN TTATCACAGT
ATGCAAATGC ACTAGGAAAA TCATTACCTA TTTAGTCCCC TTTATTTTGG TGGGTTTAAC ATGAGAAGAG TAATCCATGC
TACAAGACGA GATTTCATTT TACAGCTGTA GTAGCCAAGT GCTTAAAGC TTGANTCTGT CCCA

SEQ ID NO:521: (Length of Sequence = 360 Nucleotides)

TTGAGACGGA GCTTCCCTG TCACCCATGC TGGAGTGAG TGGCGCTATC TCAGCTCACT ACAACCTCCA CCTCCCAGGT
CCAAGTGATT CTCCCGCCTC AGCCTCCCAA GCAGCTGGGA TTACAGGCGT GAGTCACCTG CCTCAGCCTC CCACAGTGCT
GGGATTACAG GTGTGAGCCA CTGCGCCAGG CCTCCCAAGG TGTTGGGATT ACAGGCGTGA GCACCGCTCC GGGCCTCCCA
CAGTGCTAGG ATTACAGGTG TCAGCTGCTG CACCTGGCAA TTTTGTGATA TTAGGTCCCC TGAAGTCCAA AAAGAGATAT
ATGGCTTATT TGGTATAATG AAATCATACA GGAAGGCATT

SEQ ID NO:522: (Length of Sequence = 287 Nucleotides)

TTGAGGAAGT TCTGTGCTG GTGAGGAAAT TCNITGAGT TCTGTAGGAA TTTTATAGC TGTGTTGCA TTCAGTTCTA
TCAACAAGCC AGCAGCAACT CAAAGGGAAG CCTCCTNCTG GCATATCAAT CACACAGGCA CATAGGATCA TATAGCATAT
AGGATCAGTC CCAAGAAGAA CTATNGGGTN GGGGAGAGGT TTTTCTTCCA CTTCTTGGN TTCAGTGACT TTGAGATGGA
CCTCTTTTTT CCNITGGACA AAATGTCATC ACACCAACAT CTTATTG

SEQ ID NO:523: (Length of Sequence = 318 Nucleotides)

CCTGTCTCT ACTAAAAATA CAAAAATTAG CCGGCATGG TGTACAGTGT CTGTNATCCC AGCTACTCGG GAGGCTGAGG
CAGAAAAATT GCTTGAACCT GGGAGGCAGA GGTTGCAGAC AGCTGAGATC ACTCCATTGC ACTCCAGCCT GGGCAACAAG
AGCAAACTT TGTCTACAAG TCCTCCTACG CTGACAGGTC CTCCTCACC TGAATCTTTT ACGCCAGCAG CGTCTCTTCA
CTGACGINCT TCTNCATGCC GGAAATAGGA CCTCCCTTG CCANCGGGCA GTGCTGGCTG CATGCAGTCG TTACTTTT

SEQ ID NO:524: (Length of Sequence = 238 Nucleotides)

ATCTCATTGG AGCCAGGGTT CCAGTTCTCA TGCAAGTCGG CCACAGGAGC CACGGAACCG CAGTAGGATT TCTACTGTTA
TACAGCCCTT GAGGCAGAAT GCAGCAGAAG TTGTGGACCT TACCGTTGAT GAAGATGGTA AATTGAAGTA GTAACAGTAG
AAAATTATGA AAGGAGTTTG ATAAAAGGAA ATCTCTTAAT ATGCTAGAAA CTCCTCCTGC TTACTGGTAA TATATTAT

SEQ ID NO:525: (Length of Sequence = 168 Nucleotides)

CCAATGAGTG TGGACCTTAA ATTTAAACAG CTAAAGCTAT AGTCTAAGGA CAGTCTCAA TAAATACCTT TGAATTGTCA
TATGGTGCCC AGGAGGGTCT TGTGGAAGG GTTTCATGGT AGTGAAAGAT GTAATANCTC TTTTTCCTT TTAACCTTAA
GCCTGTCC

SEQ ID NO:526: (Length of Sequence = 387 Nucleotides)

GGAGGTCACA CGGTGAAACA GACACAGTTA TATACAACAG GGCAGTTTT TAAAAAGAGT TGCTCTCAGA CGCATTTTTT
CTGCTCCCTA AAAAGCCGAG GAAGATACTG GNTCCACAGA AAGAAAAGGC AATGCCGTAA CATGAGGCCC TCATGGCCGC
ACCGTCCAGG GGAAGGGCTG TTAATAACAC AAGTATTCTT GTGAAATACT TCGATCTGAG CATTAAAGCA GGTCTGCAGG
AGATCCGTCC TGGGGACTCG GACAGCAACG CTACCGGCTC CGAGAGGACA GTTAAATGTC GCCTCCCGGC AAGAGGGGCG
GAGAGATCAG ACAAGGAGTT GTTCCTGAGT TNAACCTGC TACAACAGCA AACTCCAATA AACTCAA

SEQ ID NO:527: (Length of Sequence = 336 Nucleotides)

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TTTGAGTTT TACATCCCC TAGTACATCC CTGCTTACTC GGGAGCACAA AGCTTGGTTG TAAGAAATTG TGATTTGGAA
 GTAGAGAAAA GCAAGGAAGT CCAACCTCAG GAGTGTCCTT GTTACTAAGA GGAGAGTGAG ATCCAGGGTG TGGGAGATGA
 TCTGAAGGTC TATGGGTGGG GAGTGCCACA GGAAGAAGGG TTCTGGTCGG AGTTAAAGGA GGATATATCT ATATNCTGGG
 AGATGAGCTG AATTGAGAAC ACATGGAATG GGAACAATTC TCCCCATACT GCGTTTAAGC CAAATTAGGC TGGCATCCCC
 CACCACGGCC AACTAA

SEQ ID NO:528: (Length of Sequence = 482 Nucleotides)

TTTTACTCTA CCGTGAGGAG GGGGCTCCT AAGGAAAGTC ATGCTGGGTA AACTGTGCGA TGTACAGAG CACATTGAGT
 CTGTGGTCAT CGTGGTCTT CTATCTTCAC TGTCACCTGT ATCTGTTCAC ACATACTCAG TTCTAATTG TAAGCTCAAT
 TTTGGTATTA GCAAAAGCAT CTGTGAGTTT TTCTCAATT ACTCACACCT CTTCTTGCCT AAATAAAACA AAGAAACAAA
 GAAACAAGT GTGGTGTCT TACACGTCTC GGGAGTTCCT CGTCACTGAC TTTATATATA TANAANAAG AATGCACATG
 CGGGCCACGT TCACAGATAG ACAGATTAC CCGAAATGA GGAATGAGGG GCCTTAAAGG CTGCCGANAA NCAAAATGGG
 GTGGAAATTA GCAANCGTTG TTTCCGGTC AATTNCCAAT TGTGCACTGG CTGCGTTGAG ACAAGNCCAT CTTCCAATTT
 CC

SEQ ID NO:529: (Length of Sequence = 412 Nucleotides)

CTCTCAGACA GTATCCTCCT CGAAGCAGGA ATCTAGTAA ATCTCATCTG CCGCATGCGA TTCCTAGTGC AGAGAGGGGA
 CCTGGGTTAT TAGAAAGTCC TTCAATATTT AACTTCACTG CAGATCGATT AATTAAATGGT GTCCGGAGTC CACAAACAAG
 GCAAGCAGGT CAAACTAGAA CACGGATTCA AAACCTTCA GCATATGCCA AGAGAGAGGC TGGGCCTGGG CGTGTGGAGC
 CAGGCAGTCT CGAATCCTCT CTTGGTTTAG GGAGGGGAAG GAAGAATTCC TTTGGCTACC GGAAGAAAAG GGAGGAGAAG
 TTTACAAGCA GCCAGACACA GTCTTNCAAC GNCACCAAG CCTCCGTGCG CAAGCTTTCG AGCTGGGGGC TTTTCCAGCT
 TTCCCTCCAT TA

SEQ ID NO:530: (Length of Sequence = 301 Nucleotides)

ACTTTTAAAT AATAGTCAIT TAAAGTGGT GAGATAATAT CTCATTGTGG TTTTNAATTG CATTTCTCTG ATGCTTAGTG
 GTGTGAGCA TTTGNCATA TAACNCTGG CCATTTGTAT GTCTTTTTTT TTTTTTTTTT TTTTTTTTGA GATGGAGTCT
 CACTTTGTCA CCCAGGCTGG AGTGCAGTGG CGCAATCTTG GCTTACTGCA ACCTCCACIT TCIGGGTCA AGTGATTCTC
 CTGCCTCAG CTCCAAGTA GCTGGGATTA CAGGNGCCA CCACCACGCC CAGCTAATTT T

SEQ ID NO:531: (Length of Sequence = 312 Nucleotides)

CAGATGAGAC CAGGCCTTGA CAGTGGGGC AAGTCTACC AACCTGCACA GCACATCCAG CAGGNCAACT GTGGCTCAGC
 AGGTGCCAAA TGGAGCCCAT GGGCAGAAGA TGCCACAGC GTTCAGATG TGTGTGGTCT GAGAGATAAA AGGACACAGA
 ACAAGATGAC TGTGCAAATA GCCAAGTGGT GGCAGAAGTT CTGCATTTC AAGAGATGAT CCACTCAATA ATTTGACGAT
 ACTAGTTGGC CAACATGCTC AGAGAAAACA GNCCTATCCA CATCTGGAGC CTCATTCTCT CTCAGGATCA TT

SEQ ID NO:532: (Length of Sequence = 313 Nucleotides)

GCACAACTCT CGACCTTTGG GAGCAGCCAG GGAGGAGTCA CTGTCCAGC CCCTGGCCT AGGCACAAAG GGGTGGGAGA
 GACAGCTGGG CCAATATGGT CTATTACCGC CTGAAACCCC GCCGAACCAC CCTTAACTCT GCCTTCAGGC ATATCCCCC
 ACGTCCATGT CCAGGAGCCC CCTACTGTC CTGGTCACT GTGGCCCGG GAATAATGGA GGAGATGGTC TGCTCTGTGC
 TCGACACCTC AAACCTTTG TGAGTATGTG GGGAGGGGCT GTGGGGGAGG AGGGCGTACG GCTCTGGGA TCT

SEQ ID NO:533: (Length of Sequence = 378 Nucleotides)

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GTAATTCAT GTGGCTGACT GGGTAACAGA TTTGAAGGGT ATCAGAGACC TTCATGTTGT AGCTCATCGC AGTGTATGT
 TTGTTGCTTG TCTCTGCTC CCGTTGTATT GCCATCCTCA AGGGCAAAGA CTGCATCTTT GTATTCCCAG CTCCTAGGCC
 TGAGTCAGGC ACATAGTAGG AATTCAGAAA GATGTTTTG GATGTAACAT TCCTCCTTTT TCCTGGACAA AATGGCCTTT
 TGTCGGTGC ATTGTCCTTT CCATAGAGGA GGGGTTGGGG CAGGATTGTN AGATGACTGT GTTTGAATCT TCAGTTAGCT
 AAGACAAGGA TACGTTTTT CCATGGTGCA AATCTAAAGG GTTCTAGTGA GGTGGTTC

SEQ ID NO:534: (Length of Sequence = 374 Nucleotides)

TTTTTTTTT GTCCAAGGTT TATCAAATTA ATTGATTTTG GGGGGCAAGA TAAAAATTTT NATTTGATTA ACTTTCTCTA
 TTGGTTTTTG TTTCAATTT CATTTATTTT TTCTTTTATC TTTATAATGT NCTTACATCT GCTTGGTTTG GGCTGGGCAC
 AGGGGCTCAT GCCTGTAATC CCAGTACTTT GGGAGGCCAA GGTGGGCAGA TCACTTGAGA CCAGGAGTTT GAGACCAGCC
 TGGCCAACAT GGCAGAACCC CGTCTCTGCT AGAAATATAG AAATTGGCCA GGTGTGGTGG CCAGCACCTG TGATCCTAGC
 TACTCGAGAG GCTGAGGCAG GAGAATGGCG TGAACCCGGG AGGGCAGAGC TTGC

SEQ ID NO:535: (Length of Sequence = 433 Nucleotides)

TGCCGACTGA TTCCAAGTCC CCAGGAGGGC TGTAATGCT AATAGATATT TGGGGTTTAT CTACATGGAT AAATCAGAAT
 TGTTAACATT ATTTATAAAG ATAATACTTA CATAATTTTN AAATTCACAA AGATTGTTTG GCTTAATGAT TTCTAAATGT
 ATGCAATATA ACATTAGGCG GCTTTTATTA ATTCTATTTA TGTAAATGGAA AAGCTCAATT CAGCAAAAAA CAGATCTGAT
 GGGATTTGGT TATTTCTTAC CTGATCAGAA CAAAGCCTTA CTTTACATTC CTGACTACCG ATTGGCTGAG GGATTGTCTA
 ATAGAATGGA GCTTTCTTTT GAGCGGTATC CATGTGTACA AAATTGGGCT GCTTTACCTG TGACCCACGG ATTGCTGGAG
 GAGCTTG:AA ATGTAGTCAG CCGTTTCTTT TGG

SEQ ID NO:536: (Length of Sequence = 438 Nucleotides)

GATGAATTAA GAGGGAAATT TATAAAGTAA AATCTTTAGC GCTGTTGATC AAAGAGTTCC AGGCGGGCGG TGGTGGCTCA
 TGCTGTAAAT CCCAGCACTT TGGGAGGCTG AGGTGGGCAG ATCAGCAGGT CAGGAGATCA AGACCATCCT AACACGGTGA
 AACCCCATCT CTACTAAAAA TACAAAAAAT TAGCCGGGCA TGGTGGCAGG TGCTGTAGT CCCAGCTATT TGGGAGGCTG
 AGGCAGAAGA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG CGGTGAGAGC TCCAGCTTTT
 TGTTCCTT TAGTGAGGGT TAATTTGAG CTTGGCGTAA ATCATGGGTC ATAGCTGTTT TCCTGTGTGA AATTGTTATC
 CGNTCACAAT TCCACACAAC ATACGAGCCG GAAAGCAT

SEQ ID NO:537: (Length of Sequence = 316 Nucleotides)

TAGTAGCACT AAAGCCCGT TTTGGTCACA CTCTCACCTA GGTTGAGAACC TGACCAAAAA TGTGGAATTA TTAAACAAAA
 TGATGGGAAG CCAATGTNCT GAAACTGAGC TCTTGCACTA GGCCCCACA GACCAAAATTA AAATGGAGTC ACTAGTGCTA
 AATGCTTTGG AGTCAAACAG AAATGTTAAA GAAGATAGAT CCCAAACAG AGCAGTGTTC TATTTTCTC CAGAAAACAG
 GAGATTCCAG CATAATAAGA AAGTCTCCTC TGTGTAAACC CTTACAAAAA AGTAACCTGA AGTAACCAAT TTTTTT

SEQ ID NO:538: (Length of Sequence = 303 Nucleotides)

ATCTTCATGG GCGTCCTAAC TGTAAACAAA ACCCCACAAT TTGAACAGAA GAACAGAAGT ATCTGGTTAC AGAAGTGCAT
 TCATACATTT CACAAATGTT TCAGTATCCT CTCTCCCCG ACCCCAGCAT GAGCTTTAAT TGGATGTATT TATCTTTTCA
 CCAGCATGCC CATGAAGGNG CTAAGGAAAA CATTTACCAA GTCTGTTTCA AAATCTGTCC TTGGCATATC AAATTTTTTC
 TCTTCTTTT TCATGCTTTT TTTTAAAAA AAAACAGGA GAAAGCGAAT AGAGAGGAAA GAG

SEQ ID NO:539: (Length of Sequence = 362 Nucleotides)

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CATGTCATAG TGGCCTGCTC TCCTAACACA GCACAATTTA GGGCATATTT TCATGATGGT CTATCACTGG ATTACAACAC
 ATCTCTTCAT TAAAGTCTTG GGAAAGAGGC TTCAACTTIN CTGIGITGAG AAAACTTCAC AGGTGTGTAA AGTTTGATCA
 GTATGTATAA TATATTINAT TACATATATT TNATTINAT TTTTCATTT TTTCATACA TAGCAGGTGT ATATACTTAT
 GGGTATATG AGATAATTTG ATAAAGGCAT GCAATGTGTA ATAATCACAT CAGGGTAAAT GCAGTATCTA TCCATCACCC
 CAAGCATTTA TCCTTTGTGT TACATACAGT CCAATTACAC TC

SEQ ID NO:540: (Length of Sequence = 416 Nucleotides)

CACCAGGGAG AACCAATACA ACAGAAAAA AGCAGAGAAC AGCTATGTGT CCTGCCAGGT CTACCAAGA TAGTCATCCA
 AACATGAACA GATGAGAAGG CTGTTTTTCA AGAAGGTGAA AGTGACAGAN TATCAATGA ATCTGAACAC ATGAAGATAC
 TGAGACACCA GTAGTTCAGC AATAAGTGA GAGAAACTA AGCAATGAG AAACCTAGGA ACAATTATGC AGCAAAGAAC
 AACGTGATAA GCTGAAAAGT GTTTAAAGAT GCTGCCGTAA ACACCTAAGTA TCACAATCAA ATTCTGATTT GTAAAAATAG
 AGGTATGGGA AGGGTACANG TATGTTGTG GGGCAAAATG GTGAGGAGAG CTTAAACCTT CTCTTCCCTT AATGAGGAAT
 TAAATAATCC CATTA

SEQ ID NO:541: (Length of Sequence = 341 Nucleotides)

GAAATACTTC CAGGCCTTCG AAAGGCCATC CTTTGACAC ATGTAAAAAG CTGCTTGTGT GGCCCGTTAT TCCACTGAC
 CCGTCTGAGT GATCACCCAG GAGCGCGGCG GCAGCAAGCA GAGCTCACCG GATTGGGAC AAGGATTTTA AAGGCAGCTA
 CAAAGCTGAG CTCTATTTGC TGATGATAGT CTCTGTCAG CTGTTAAAA TGACTGTCTG ACTCACCATG GTAATTTTNC
 ACAAATTAAA AACACATTTT GGGTGTGCA ACAGTGGTTC TCATCTTCC AGGCAGGCAG ATTATTTTAA TGCTGTTTAT
 ACAGGGAATT GGGACTCTCG G

SEQ ID NO:542: (Length of Sequence = 334 Nucleotides)

TTGTTGTTTC CTACCTTAAC CAATACCTCC TGGAAAAAG AGGTATTGTT ATAAAAATA ACCATACCCA AACATTCCCA
 CAACATGACC TTAATAAGCT GGTGCACAGT AGATTATGCG AGAGGAAAGA AAATTGACTT TAGAATTAGA GAACTTAGG
 TTCAAATCTC AGCTCTGTC TGCTTTGGTT GACCTTCAGT AAGTCCCAT TNCCTCATCT GTAAAATGGG AATAACATCT
 ACTCCACAGC ATCATTAGAA AGATTAAATA GTGGCTGGGC ATGGTGGCTC ATGNCGTGTA TCCAGCACT TTTGGGGAGG
 CTGAGGTGGG GCGG

SEQ ID NO:543: (Length of Sequence = 350 Nucleotides)

ATTGTTTTC AATTGACAAC ACCTCATTAA TTGTAAGCCC AGTGACACTG CTGCTGTTT CAAGTCACIT TTAATTACA
 CACGTGCTAC TTAATCTTAA AAGCAAAAT AAACATTGGA CTGGTTTACA TTTCAAGCTA CAATATGGAA CCATTGTATT
 TGGAGGAATG AGTTTAATAT GCATTGTAAA ATAAATTAG GGGGTACTTT GCATTACAG CGGCTTATGT AATTAGGTTT
 AGTCAACTGT AATGTTTCAG GTTAATGTCT TCCATGGATG TATGCTGTGT AAATAGTGAA CTTACATATC CCTTAATACA
 TCTGAATTAT TACATAAATC CTTAATATTA

SEQ ID NO:544: (Length of Sequence = 328 Nucleotides)

GGGAGACGAG AACTCTTGAG ATCGGGGTC ACCGTINAGT CGCTGGACC AAGGGGGAAG CGTCTTGATT CCTGGAGGAA
 ATCTCCGAAG TGATGTGTAA CCTGTGTGT CGCTGCACT TCGCCGCAA CTGCCTTTGG TTCAGTCCCC TGTTCCGTGA
 GGAGGCGGGG ATCATGTAAC AGTGGAGCAC ATCGCTCCCG GCTTGGACGC CTTTACCTT TAAGTGTTC TGATTTAGTT
 TGGCTTTGGG TCTACCAAGA ATTCTAGTCA GTTAACTAGC TTTTAAAGCC AGGTTCCCTGA ATTGGTATGG CATGGACACT
 CCCAGTAG

SEQ ID NO:545: (Length of Sequence = 342 Nucleotides)

GGGCTATTAC CTCGCGGCAC TGGGAAACT GGGAGACGGG ACAAGGGGTG ACCAATTTTT CAGTGTATGC CCTTTTGGAA
GTGTTAAACT TTTTTTTTTT TTTTTTGAGA CAGGCTCTCA CTCGTGTGCC CTGCTGGAGT GCAATGGTGA GATCGTAACT
CACTAAAGCC TCAACTTCCT CGGCTCAAGC AATCCTCTCA CCTCAGCCTC CTGAGAAGCT GGGACTACAA GTNTGTGCCA
CCATACCTGG NTAAATNTTA AAGTTTTTGT AAAGATGGGG GTTTCCGAT GTTCCCAAG CTAGTCTCAA ACTNCTGGGC
TCAAGTGATT TGCCACCTT GG

SEQ ID NO:546: (Length of Sequence = 280 Nucleotides)

CTCGTAATGC CAGCATTTTG GGAGGCTTGA GGCGGGAGG TCCTTGAGC CGAGGAGTTC GAGATCAGCC TATGCAACAC
AGTGAGACCC CTATNCTAT TTNATTTAAA AAAAAAAAAA AAAGGGGGTC ACGTTTACTG CCACCATCCC AGGCAGAAAG
ATGAAGCCTA GAGCCTCTCA CTGCTTCTTA GTGGGTCTTG GGTGTAAAT TGCTGTCTTG GGTATATTTT TTGGCAGAAA
GCATCTGGCA TCAGGCACTG GTTCTCAAAG TCGGGCCCC

SEQ ID NO:547: (Length of Sequence = 298 Nucleotides)

CTAAGAGTT TCACATAGTG GCTCAGTCCA GCCTGTGGG GATCTTGCG GGGCTGGGG CCGGTGGTCC GGGGCCTAGG
GGGATGCCIN ACCAACAGAG GCTCTNCAGG CTCTGAAGAT AAGCTGAGGG CAACAGTGA CAGAGGGGGC TGAACCTGCC
TCAAGGAGGC TCTTATTCAA GAGCAAGTCT TGCTGGCTTC TNCAGAGCT GGGGACCACG TGGCCCTTTG GCCAGCCAGG
ACCAGCAGCN CTNACCACCT GCTGAGGGGC AGTTTGGGTC AGGGGGGNC CATAGAGG

SEQ ID NO:548: (Length of Sequence = 311 Nucleotides)

GAGACAGGGC TGTTTCTGC ACTACACTGG TCATCTGACC AGTTTCTGC AATGCTAAGA AGGTATTCTT TGACCAAACA
GCAGTCCACA TACAAGTTTA AAAGGGGGCC TGTTTATGTA GGAACAACAC TGAGGTGGTG CGTAGCAGGT ACAAGACGCC
CAAATATTTC CAGTTTATCT TACGGCTGGA CTCTATTCT CCCACACTGT TTCTAAAGA AGGTCCACAT TATTTTGGNT
ACTAGCCTAG TTTAAGTGA GATACTGTGG GCAACTTNA AGAAATGACA TCAGGCACAC AGGCTGAGCT T

SEQ ID NO:549: (Length of Sequence = 387 Nucleotides)

TTTATTTTGG TGTAAGACA GGAAGCTGGA AAATACACTG TATTTAAAT TTNCTTGGTT CCCCCACACA TTGTGGAAAC
CCCCCCCC CAGAGCTAAT CTGTTCAAAC TCAATACCT AAAAATTACA GCAGCCAAAC AAAAGCATGG GGGAAAAAAA
AACAAAAACA AAAACCAGAT GGAGAAGGTA GCCTGGGCCA GTAGTGTAC TTGGTGTGGA CGACTGAGGT GCTGAACAGG
AGCTTCTGTT TCTGTTTTTT TCTTTCTTT CCTCTTTCT CTTCAGAGAG GGGATCTNGA AGTAGCTGGG TGTGTCCAGT
TTCATGAAG CTGCTTCAAT AGCTTGGCTG AAGGAATTTT GAAACTNGG CACAGGAACA CGGGTTT

SEQ ID NO:550: (Length of Sequence = 377 Nucleotides)

CACCCCCAAC TCTTCACCA GTAGGGGCC TGGCTTGCAA TTGCAGAAGA GCTTCCCAT CCTGGGTGA GCATACCTAC
TGGTAGTGGC TCGTGATTG CCTGGGGAGG GGCTCCAGA GGTAAACCAAC CAACCTGTG CTACTGCTAT GACCACAGTT
CTGCTTCTGC TGCCCTCAA CTGGGAAGA AACAAAGAG CTGAGGGCTT TACTCAGCT TCTAGCACTA CGCAGTCACC
ATATAAGAG GAGCCAGTC TCTCTCCTT GTGAACCTT GACCCCAAC TCTTCACCA GTGGGGCCCC CAGCTTGGGC
CAGCAGCACA GTGGCCCCA CCCCTAGGCT GAACATTCCA GTAGCAGCTG CTCCGG

SEQ ID NO:551: (Length of Sequence = 320 Nucleotides)

GAGTTTNTGG TGAGCCGAGA TCACGCCATT GCACTCCAGC CTGAGCAATC AGAACGGTCC GGCTCCTGTT GCTGAGGAAG
CAGCTCTGGA TGACCTTCAT GATGAAATTT GCAGCTCTGC GCTCAGTCAT GTTGGGGCTA AACCTGTGCC TGGAGGAGAG

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GCTGTGTCAG GGCTGCCATG GGCAGGGCCG TGCTGGCTCC CTGGCCCACT GGGAGGAGGG TCTTCCATGG GGACGGACTT
CAGCTGAGAG CCATGCCCTG GGAAATGTAC CTTTGGGGTC CACATGTTGG AAGATGGGGT GCTGTGAAGG CCACACC

SEQ ID NO:552: (Length of Sequence = 334 Nucleotides)

ACAAACTGAC AAGAGAAAAC AAAGAATTCT TTGGTGATCT GGACACGCTG ATGGGGCCTC TGACCCAGCA CAGCAGCATG
ACCAATCTTG TCCGCTACGT TCGCCAAGGA CTGINTTGGC TGCGCATCGA TGCCCACTTG TTGTAGTGGG TGTTCTCAGA
TCTCTAGCAT CACGACCCAT CACTCTACCT CTACCAGCGC ACTGATGGTC ACTGGTGGAA CTCCACTCAC TGGGGAACGT
TCTCTTGGT TATGTTTGT TTTATGCTTC TTTTGTATC TGTAAAAAC AGAAGTCATT GTAAGTTGAC ACTACAACCT
AAGGGCAGTG TACG

SEQ ID NO:553: (Length of Sequence = 371 Nucleotides)

GAAAAGGGGA AAAATCACAA TATGTGTCT AGACAATATT GGTTTAGATT TTTTAAAGAT CTAAAAITCA ATTATGGAAA
GCCAGCAGCC TGATCCAGTT ACTGTGACTA AAGCAATTGT CAGACCATCT CTAGTCAACC CCTATGGGT TTGTCAATGT
GTCTACCCCA ATTTTGGATC AGGAGGGGTC AAACAGAAAT ACAGCAATGT GATTAACTG CTCCTTTGCA AACAATATGA
AAAGGTTTGT NCTTTCAAAG TAGATTCTAA CAAATCGTCT GCTCACTGTG GGGTAGCAA GNGAGAAAAG CAAATCTTTC
TATTAGTCTC AAGCAAGTCT TCAGATTAC ACACAATCTA ATGGAGGCAT C

SEQ ID NO:554: (Length of Sequence = 331 Nucleotides)

TTATGACTTT TTCAATAAG GCTATTGTAT CAGCCTGINC TCTGCTGCT AATAACGACA TACCCAAGAC TGGGTAAITTT
ATAAAGGAAA GAGGTTTTAT GGACTCACAG TTCCACATGG CTGGGGAGGT CTCACAATCA TGGCGGGAGG CAAAGGAGAA
GCAGAGTCAC ATCTTACATG GCAGTAGGCA AGAAGAGCAT GTGAGGGGA ACTCCCTTT ATAAAACCAT CAGATCTAGT
GAGATTTAAT CACTATCAAT GAGAGGCAGC ATGGGAAAAA CTTGCCCTC ATGATTCAAT TACTTCCCAT TAGGTCCCTN
CCACAATACA T

SEQ ID NO:555: (Length of Sequence = 305 Nucleotides)

GCTGGGACTA CAGGCGCCCG CCACCACGCC CGGCTAATTT TTTGTATTT TAGTAGAGAT GGGGTTTAC CATGTTGGCC
AGGATGGTCT CGATTTCCTG ACCTCATGAT CTGCCCGCT CGACCTCCA AAGTGCTGGG ATTACAGGCG TGAGCACCGC
GCCAGCCCA ACACATGGTA TTTCTGTCA TTTTCATTTA GTCTCTGGT TGCCTGTGA TGGTCTCAGG CTTTATTTAC
ATTCTCCGA TTAATAACAG ACTTGAACAT TTCAGCACAC TTTTAGGTT ATTGAATAAC CCTA

SEQ ID NO:556: (Length of Sequence = 318 Nucleotides)

CTTTTTGGT GATINCTAAG CTCGTTTN CTTATCTAT ATATATAATG GGTGGTTTT NATTTAGGA TTTTAAGGTT
ATCCCTAATA AATTTGAGA TGTTTCCAT AGCTAGCCTG TTGAGATCTT TTATATCAA AAGTTAATAT CTGTGGATTT
NIAATCATT TTTCTACATA TTTAACAAG TCATTAGCAA AATATTGAAC AAAACCTGTT ATTCATATCC TTAGATACAG
AACATCAATA TCCTGAGATA CAGTACATCA TCAAAATGTG GTCCCAAAT GNGCAGCAAT TAGCATCATG TGGGAGCT

SEQ ID NO:557: (Length of Sequence = 349 Nucleotides)

GGAAGCAATG TGCTTCTTCT TAACAGAGAT ACTGCACTAT TCTCTATGTA TACTCACTTG ATGGCATGGT ACATGTCCTC
CAGGATGTCT TGCTCAAAGT CCTTGCTCC ATTACACCT TTCAGATTTT TGGAAACTC CTAGAGACAG GCCAGTAAGT
TTTTTCCCCT TGTGTCAACA CTAAGCCCC ACCTAAGGAA CTCTTGGGTT TTCAGTAAAT AGGACTTAGG AAAAGGTAAG
CGAAAAACC CACTTCCCCA CCCAGTCCC TTTTCTAGGT TTGGGCCAGC CCTTCCTTGA TTCCCTTGA CAGAACCCCA
TCCATCATGC CCACTGGAAT CCTATGTC

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SEQ ID NO:558: (Length of Sequence = 279 Nucleotides)

GGGCCAGGCG CTGTGGCTCA CGCCTGTAAT CCTAGCATT TGGGAGGCCA AGGTGGGCAG ATCACCTGAG ATCAGGAGTT
CAAGACCAGC CTGGCCATGT TGAAACCCCA TCTTTACTTG TAATACAAA ATTAGCTGGG CGTGGTGGTG TGCGCCTATA
ATCCCAGCTG CTGGGAGGC TGAGACAGGA GAACCTCTTG AACCCGGGAG GCAGAGGTIN CAGTGAGCCA AGACTGCACC
ACTGCATTCC AGCCTGGGCG ACAGAGTGAA ACTGTGCT

SEQ ID NO:559: (Length of Sequence = 278 Nucleotides)

GAGAAAGCCA AGAGCCATCT GGAGGTGCCG CTGGAGGAGA ACGTGAACCG CGCCTGCTG GAGGAGGGCA GCGTGGAGGC
GCGCACCATC GAGGACGCCA TTGCACTGCT CAGGTGGCG GAGGAGGGG CGACCCGCA CCCAGAAAGA CGCATGCGGG
CAGCCTTCAC AGCCTTINAG GAAGCCAGC TGCGCGGCT CAAACAAGAG AACCCCAACA TGCGGCTNIT GCAGCTGAAA
CAGCTCTTCA AGAAGGAGTG GCTCCGCTCT CCTGACAA

SEQ ID NO:560: (Length of Sequence = 304 Nucleotides)

CAATGTTAT TGGAAGTTAT CTAGAAGGCT CAGTAACCAG AACTTCCTTT CATTCTGCTT TCTTTTTCT TTTTTTTTTT
CTCTGAGAC AGTCGGCTC TGTCTCCAG GCTGGAGTGC AATGGTGTA TCTCAGCTCA TTGCAACCTC TGCTGCCCGG
GTTGTGCAA TTCTCTGCC TCAGCTCCC GAGTAGCGG ATTACAGGCA CGTGCCACCA CACCTGGCTA ATTTTTTTTT
TTTTTTTTTT TTGTATTTT AGTAGAGCCG GGGTTTCAC CATGTGGCC AGGCTAGTTT CAAA

SEQ ID NO:561: (Length of Sequence = 323 Nucleotides)

GATGGTAAAC ATAAACCCAA ATATATCTGT AATTACATTA AGTGCAAGTG AACCAAAACA GTTCAGATAA AAGACAGTAC
CTATTTCAAT GCATTATGAC TATCATGAGG TAATATATGT AGAGATTAGA GTACACATGT CATATTAGGA GGTGTGCAAT
AAATGATACT TTATTCTGAA GATTAACATA ATTCATACT AAAAGGATCA AGAAGTAGAA TATTAAAAAA NTAGAATGTG
AATGTTCTG CAAGTTTTGA TAAGAACAAG CCCATAAAT AATCCTAAT TTGCTACAT TAGGGAATAT GGGTAATGAC
TAC

SEQ ID NO:562: (Length of Sequence = 214 Nucleotides)

TCTAATNAGG CCCTGCGTGC TGTGTCATCC CATGGCGGAA GAAGGAAGGG CAAGAGTGGG TGAGATTGTN AGCACGAGAG
AAGGCTGAAC TTCATATTT AACAAACCAC TTTCATGATT ATNATAATCT TCGCATTTAT TTTTTCGGT CTCTTCATGT
NCTCTAATT TTCTCTGGN TTTTGGTCTT TTGCTTCTC ATTTTAGAA GCTC

SEQ ID NO:563: (Length of Sequence = 358 Nucleotides)

TTTTTTTGT GAGAAACAGA AGCTGAATAT CCTGATTGA TTGCCACAC AGGCGTTCAA TGGCTTAGCA GTGCTAAAGA
TTTATTTTA TTTTITGGG CTCTGGGCTG ACATTGGAAA TTINCTGAA TGAGAAAAAC CATCTCAAC CACTGTTTTT
TAACACTGAG TAACITGGA AATTAACTTT TGCCACAGAC TTGAAAATGT TTCTTAATGA ATTTGACCTG AAATTACAAG
GTACAACAAC ATAATATGGT AAATTCATTT CAATAAAAC TAAACTTAA GATTGTCAAG CIGCTTTATA TACTTCTGT
GCTATGAGAA GTCAAAACAG CGCTGTATG CCAAATCC

SEQ ID NO:564: (Length of Sequence = 405 Nucleotides)

ATGTACTGTG TGTTTCATAC ACATGTTCC TTAGTCTTA AAATCTGGCT CATGGGGTAA AACTATTAT AATCTCCATC
CTCCAGATGA GGAAAGTGAG ACTTAGAGGT TAAGTACATT TTAGGATAAA GTAGGGTATT TCGATAAATG TTTCAAATGT
GTTCTGCTC TCTGAGGACT AACTCCAG GCTGCTGGG ATACAAAATA CCTTTCTTT ACCATAGGAG CACTTGGGTA
GAATATTTGC AGAAACAATA AACTGGCTGA TATTTAAAGT TCTCTCAGC TCTGACATTC TATAATTTCA TTGACCTCT

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TTGCATTAA TTATGTTGAT TTTCCTTTCT ACCCCTTGCT TAGCTAAAAA TATACCCCTT CTNIGTCCAT GGACAGGAGG
ATGGG

SEQ ID NO:565: (Length of Sequence = 196 Nucleotides)

CATCCACATC AGGCAAAGGC AAAGCAGGAC CTGAACCTCC CACCCCAAGC CCTACATCCA TGCAAGCCAG ACCAGACTGG
GTCAGAGGCT AGAAGGGGNC TCACAGGNTT GCCTGGGGAA GCCTGGGCC. AAAACCTGGC CCTNGCTCCA GCCCAGAGNA
CCCACCTGGG CATNAGACTT GGGCAGCGT AGGGGT

SEQ ID NO:566: (Length of Sequence = 275 Nucleotides)

TTGGAAAAA GAGAAAAAA AATTCTGCTT CATTTACGAA TGTTCGCAAA GGAGGCAAGT TTTCACCTGA AAACAAAACA
TAAAGGTCTA TGTGGATGCA GCCAAATGTT TCTCCATTTA GAAATCATC ATAAAAGGTG GCAGCACTTT TTTTGTCTGT
TAACTATATT ACTTATAACT GGCTGCACCA ACATTTTCATC TCAATTTTGG GAGTGTCTCT TCTGATCAAT CCTAAAAGCA
ACACAATCAT TTTAGAGGTT GCAGACTACA ACAGC

SEQ ID NO:567: (Length of Sequence = 349 Nucleotides)

CGCTCGINTG TCCCACACAA ATGTTTAAAG AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
AAAGATTCCA GTGCCCTGA AGAGGCTCCC TTCTCTCTGT GGGCTCTCTT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
TACCGTCTAT AACCTTAGGG GGNCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
AATGCCACAC CTA CTGTTA CCCTTTGAGG GCATTTCTCC AGACAGAAGC CCCTGAAGC CTAGGTAGGG CAGGATCAGA
GATACAACCC GTGTTTGCTT CGAAGGGCT

SEQ ID NO:568: (Length of Sequence = 368 Nucleotides)

CTGGTAACTT CCCGATTGNN TTTCCTCCGCC TCANCCCTTT CCCAGGGCTA TTCTCTCTCC ACCTGCTGCC AGGCCTTTCC
CTGGCCATCC TGTGTTAAAT GTCATCCCGC CCTACTGTT ATGTTCTCCA CAGCACTGA ACACGACCCA ACATGCCTTT
TCACTTCAAG GTTTATCTT CTATTAGTTT TCCCAGAGTC TGCTTCCCTA GTGTCCATCT CCCCTGCTCG AATGCCTCTT
GAGAGCCAGT GCTTGTAATTT TGGTCCINGT GGTATGGGCC TGGCACATAG TAGGCAGTCA GCAGATATTT ATGGAACAAA
CAAATGAATT TGTGTGACTA TAGTTCATTG TTCATAGTTC ATTCATAG

SEQ ID NO:569: (Length of Sequence = 328 Nucleotides)

TGTCACTTAA TGCACAGCTG GGGCTCAGGA CACAGCTTTG CACACCTTAA GTNCTCAATA AATGCTAGCT CAGGGCAGAG
CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATAACCTAA GTACTCAATA AATGCTAGCT
CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGGG CAGAGCTTTG CATAACCTAA GTGCTCAATA
AATGCTAGCT CAGGGCAGAG CTTTGCATAC CCTAAGTACT CAATAAATGC TAGCTCAGNG ACAGAGCTTT GCATACCTA
AGGTGCTC

SEQ ID NO:570: (Length of Sequence = 313 Nucleotides)

CCCTAAAAGG CAGAGTGTCT TCTTACCTCC ACACAACCAC GCTAGCTCTA TAGCAGTGGT TCTTAACCAG ATTGAAATGG
CTGAAATGAC AGACATATAT TTCAGAACCT GGATGGGAAG AAAGCTCAAT GAGATAGAGG AGAAGGTTGA AACGCATCCA
AGTAAAGCAG TAAAATGATC CAAGAGTGA AAGATGACTT AGCCATTTTA AGAAAGAACC AAACAGAACT TCTGGAAATA
AAAAAAATC ACTACAGGAA TTTTATAATG CAATTGGAAG CATAAATAAC AAAATAAACC AATCTGAGGG AAA

SEQ ID NO:571: (Length of Sequence = 338 Nucleotides)

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AGGAAAGCAG GGGTCTCAAT TCTGTACGAA AGAGGAGGGT GTTTTACTTC CTGGAATTAT AGAGGCCAGA GGTGTCTCTT
TTTCAATTTA TTGGGAAGGT TTATTTTAAT ATGGACTTAG AAATAAATAA CTTATTAAAG TGAAGGTTCA CCTGGAGCCT
TAGGCTGGCT GCTAAGTGTG AGTCTGGGCT GTTGAAGGGA CTGTNCIGTT CTNCTGGTC TCTGTAGGAG TTTGAAGGAG
AAGACTGGCC CCAAAGGGTG TTTGAACAGG TTAGATGTGC CCATTGGTTA GAACTTACTT GGATAGGGAG AAGGGNCTA
GGGCGTATCC ACAAACTT

SEQ ID NO:572: (Length of Sequence = 375 Nucleotides)

CTATTTCCAG AAGTGACAGC ACAAGTCTGA GTTGCTGTTT GGTCTGGTGA CCTCAGACAC ACTAATTTGA ATTGAAAGCT
AAGAGTAAAA ATTNCTGGT TACAGGCGAG TCATACTCTT GCAAGTAGTT AGCAAAGGGA GGCCCAAATT CTCAAGGTG
TTGATGGGGA ACTTGCCACT AAGAGAAGGC AGAGAGGTCC CTAGTGGGTA TATTNCTGCA CAAGCCACTT GCCAAAGAAG
AGGAACCACA GAAAGAGAGA CATCATGACC NGGAGAAAAA TGTGACTAGA CATGCTAACC TCCAGGTNTT TATATATGAC
TTGAGTCTGC TGTAAATGGC AGCAGAAATC CAAAATTGT ATGGGTAGAC CACAA

SEQ ID NO:573: (Length of Sequence = 396 Nucleotides)

GAATCCCCAA AGGAGAGGAG CTAACCTATG ACTATCAGTT TGATTITNAG GACGATCAGC ACAAGATCCC CTGCCACTGT
GGAGCCTGGA ATTGTGCGAA ATGGATGAAC TAAGAAGCTT TGAGGCTACC AGGCAGGGA GTCCCCCTAC CCACAANCTC
TTCCCTGAAA GNAATNGAGG GGAAGAGAG GTAGCAGCCA GAGCCAGGAC CCAGGTTGG GGCTGCCGGC TGACCCGGAG
CCCTGGAGC AGGAGGCTGG GGCAGAGGGC CCTAGGCCAA GCCCACCTG GGCACCAGG ACAATCCTCT TCCCCACCAC
CGGCCCTCAG GCTGGCATCT CTGCCCCAG CTTCCAGGAG GGGCCAGACA GAAGCAGCCA TTTGGCATCT CAGGTT

SEQ ID NO:574: (Length of Sequence = 373 Nucleotides)

CTAAACAGAT TTAATCCCT CCCAGCAATC CAGATTAAIT TAATATGCTT TCTTAACGGC ATTCGGCATT TTTCAITAAA
GCAAATGAAC GTCCATCCCT CTCTGATAAA TTAGGCGAAA AAAATTCATA TGTTTAGGGC ATAGGGAAGG AGGAGTTGTT
GGCTGTTAAA AAAAAAGACA AAAAAAGTA CCGCAATGG CGTTTCAAAG TCTAGACATC TTCATCATCA ACACAAACAT
TCTCTTCAC AAAGGGACCT CAAGTAACCT TAGGCTGGAG GACCCACCTG CGTATGTTTT TTTCTCATT CTTTCTTAC
CTTCCCTCCA GGCCACCCAA CCCACATTCA GTGGCCCAAG TCACGTGGG TTT

SEQ ID NO:575: (Length of Sequence = 431 Nucleotides)

GCCCCATTG CTTCTTTGCT TGCTACCACA ACAAGGIATA TTAGCCCTTG AAATTAAAGA TGTGTCTGTC CCAGTTGTGC
TTGTCTTAC CTAAATGCAT ACAGTCATAT TCCAAAAGAC TATATATTAG TGATATCTAT ATAGTTCACC CTTATATAC
ATGAGCTCCC GTGTGTGGAG TGAACATAAT GCAGATATAA AATATTGGG AAAAAATTC ATGTGTACTG AACATGTATA
GACTTTTTIN CTTGTATCA TTTCTAAAT AATACAGAAT AATAACCACT GTTACATAG CATTACATT GTGTTAGGTA
TTATAAATAA TCTGTACATA ATTTAACTG TACAGGAGAA TATGGCATAA GNCATATGTG GATACCACAC CATTITTATAT
CAAGTACTTG AGGCTCTGCT AGATTGTGGT G

SEQ ID NO:576: (Length of Sequence = 410 Nucleotides)

GATGCAACA GCCCAAGGA GGGAGGTGGA AAGGCCAAGG GGCTTGCCCT CCTGCAAGCG CGCTGTAA AAGTCCCCG
TGGGGTTTTG GGAGGTGCGC CCACATCTAA GACTGTGCGC CCTGCACTCC CTCTGGATGG CTTGCCGAAT TTGGTCTTCG
CTGATACCA ATTCTGGAAG GGTGGAGAGA CAGTTGGCTG GACAGCTGCC TGATTCGGCC ATGACCCTTC ACGGGTGTCT
GTGGGCCAAC ACCAAACGCC AGCCTGCTCT GCTGGCAGGG CTTCTACCTG CACAGTCCCT AGGGCTGCAA GAGCAAATGG
GGACCTGGC TNCCTGCTCT TNCAGGGCC TTGGTCAATG ACATCACCAC TTTCTTAGGA CAGCGTCTTG GGGAGCTACC
GGAACTTTCG

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SEQ ID NO:577: (Length of Sequence = 405 Nucleotides)

GAATGAAAT GGCATATTG AACATAAACT TAGGGCAGAT TTTTACTACT TTTGAAAAA TGTGGA AAA TATTCTGTA
 TGAAACGTAA AACAACTTTT AATTTTTTTT AGAAGTTGAG AGGATTCTAT TTTGCAAAGC TGTATTATGA AGCTAAAGAA
 TATGATCTTG CTAAAAAGTA AGTACAACT GTAACATGTA TTCTTTTTTT AAAATCAATG CCTTINCTCA TTINCTTCTT
 TGAATAGGT AAAAATATGT CCTTAGTAGT TCTTCTAAG TGTATTCTGG AATAAGGGAT TTATCACTCA GACTGATGCT
 AAGGACCAGC CTAGATTCCA TTGAGATTGA AACCGTAATT AGTGTCTTCT GCATGCTGCT GCTTTATACC AAGGGCAAGA
 AATTG

SEQ ID NO:578: (Length of Sequence = 406 Nucleotides)

CGCTACAGGG GGGGCTGAG GCACTGCAGA AAGTGGGCT GAGCCTCGAG GATGACGGTG CTGCAGGAAC CGTCCAGGC
 TGCTATATGG CAAGCACTAA ACCACTATGC TTACCGAGAT GCGGTTTTCC TCGCAGAACG CCTTATGCA GAAGTACACT
 CAGAAGAAGC CTGTTTTTTA CTGGCAACCT GTTATTACCG CTCAGGAAAG GCATATAAAG CATATAGACT CTTGAAAGGA
 CACAGTTGTA CTACACCGCA ATGCAAATAC CTGCTTGCAA AATGTTGTTG TGATCTCAGC AAGCTTGCG AAGGGGAACA
 AATCTTATCT GGTGGAGTGT TTAATAAGCA GAAAAGCCAT GATGATATTG TTACTGAGTT TGGTGATTCA GCTTGCTTTA
 CTCCTT

SEQ ID NO:579: (Length of Sequence = 374 Nucleotides)

GTGGGCTGCT TCTGGAGTCC ACATTCTGTA ATATTATGCT GCAGTAAATA TTAATCTTGA GAACTAGGTG ATATGGTTTG
 GCTGTGGCCC ACTCAAATCT CATCTTGAAT TGTAGTTCCC ATAATCCCCA CATATCATGG GAGTAACCTG ATGGGAGGAA
 ACTGAATCAT AGGGCAGTTA TTCTATGCT GTCTCATAA TAGTGAGTTT TCACTATATC TGCTGGTTTT ATAAGGGGCT
 TTCCCCCTN CCTTGTCTCT GCATTCTCT TTCCGGCCAT TATGAGAGGA AGGACATGTT TGCTTCCCT TCTGCCATGA
 TTGTAAGTTT CTTGAGGCT CTGAGCCAT GCTGAACGT GGAATTTAAT TAAA

SEQ ID NO:580: (Length of Sequence = 396 Nucleotides)

CAGAATAAAC ATTTACTATT AGGAGAGTCA AATCATTTAT TTTCACATGA AAGAGATTAA GTAAAGCAGA ATCTTTGATG
 GTCTGCTGTG AATCTCTGCG AGTGATTGAG AAATTTCTGA AAACCACTTC CAAATCAATT ATAATATTAA GTAAACTTTG
 GCTTTAGGAG TAAGAGAGAG AAGGTCTGCG TCCATGTTGG GAAAGAATAG ATATGCCAC AATAATTAGT CTATTACTTG
 TTTGAAAAGG GTGATTTCTT CTTCAATTCA AAGTATTAA CAAATAAGGA CATATTGAGT ATGTAATTCA TGGAAAANTA
 AGNAACTTCT TACAGTATGA TTCTAAAGG ATTATGGATG CCATTATCCA TTTTGGAGTT GGTATTGAAG CTATAC

SEQ ID NO:581: (Length of Sequence = 449 Nucleotides)

CTGCTCCGTG GCTGTTTCAA AGACTGGGCG AAAGGCTGTC CGGAGGGCAG ACCAGGTGCC TTGCCGCAGA GAAAACACCA
 NAGTCTCTG TTCGCTCATA AAGAAGTTTT TGGGATGGGA GAGAATCCAG ACCATCTTGG GGCAGCCANG CCTTGCCTT
 CATTTTTACA GAGGTAGCAC AATTGATTCC AACACAAAAC TCCTTCCCT TTTTAAATG ATTTCTGTTT TAATGCCATA
 GATCAAAGGC CTCAGAAACC ATGTGTGTTT TCCTCTTTGA AGCAATGACA AGCACTTTAC TTTCACGGTG GTTTTTGTTT
 TTINCTATTG CTGTGGAACC TCTTTTGGAG GACGTTAAAG GCGTGTTTTA CTGTTTTTTT TAAGAGTGTG TGATGTGTGT
 TTTGTAGGAT TCTTGACAGT GCTGTAAATAC AGACGGCAAT GCAATAGCC

SEQ ID NO:582: (Length of Sequence = 261 Nucleotides)

CCAGCAGGTC GACTTGCAG TGGCAGGGTC CCGACAGGG CCGCTCAGT GTGCTGAGCT TGGTGGCGGG CACTGGCTTG
 GACAGTGGCA TGACCGGAGG GAAGTGGCGG CCGAGGGGCC TCAGGGGGCT GAGCACGTCC TTGCAGAGGG GCGGGAACGG

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GTNCTGCTGG TAGTGGCCAA ANACCTCGAA AACAATGGGC TNGCTCTTGA TGTACAGGTG GCGTTTATTT TCATGGATTT
ATACACACTG GAAAAGCCTC T

SEQ ID NO:583: (Length of Sequence = 399 Nucleotides)

CCCAGGCCAC CATTTAAAGC AGCCATTCCCT GCCAAAGAGC CAACATTGAG GCCAGCCGTT GCTCCAGCTA ATGTCTGCAG
GGCTCCAAGT GAGGCTATGG GGTGACAGA ATTACTGCTG CTAGAGCTAG GTGAGGACCC TGAAGTAGTG AGCAGCTGA
GGGACTGCT GGATGTAGTG AGAGCATTGG TACCACTTGG TGTGTCTGA NNTGCACTAG CTGCAGCAGC TAGTGCAGCN
AAATTCGTGA ACTGCATTGC ATTCAACCCT CCCATTGGGT GGAGGCTGCT CAGGGTGTG AGGTTCCAG AGGAGGCAGT
CTGCTGAAGG AGTGCTAAAT ACTNGGGTCC AAGAGTATTT AGACCAGCAA GGTTCCTCCA CACAGATGCT GCGCTGATT

SEQ ID NO:584: (Length of Sequence = 441 Nucleotides)

GTTGTTTTTA AGGATTAAAT GAGATATTAC ATGTAATGTG CTCATCCCAG TGCCCAGCAC ACAAGAAATG TTCAATAAAA
TAGGAGGCAT AATTGTCTG TTTGAATACT AGATAACCCT TTTAATGGAT ATTCTACAAT TATGAATCTA AGGTGCTTTG
GAGGAGCCTA GGCAATCTAT TCCAAAATTA AATGTAAGGA AGGTACATGA GTAAGGGATG GAGTAGGCC TGGACCAACA
CTAGAGCTCC AAATTTCTTA AAAAGCTTGA GCTTCTTTTA CTGTGGCCAC GCCTATAATG GGAATAAATC TGGTTCCTCA
AACAGTCCCT CCCCTCTTA AGCTCTGCTG GGGAGTAGAG ACATCAGCAG GCTGGTTCTG TGNITAGCTC CTCCCCATCT
TNGACTCTCA TCCCATTCCT TCTTCTCTAC TACCCATTCA G

SEQ ID NO:585: (Length of Sequence = 326 Nucleotides)

GAAATGCAGG TTCAGCTATT TNCTGCTTGC AGAGTCCAGT TAACAAAAGT GAGTNTTGT ATAAAGAAAG TNATTTTTTT
TTTTTAAAT ATTCCAAAGC TAGCTGAGGG GAACAAGTAC AGGCTTCCTG CCTAGGGGTA TCACTTTGCT TTTGGAGCAG
GAAGTAAGCA CTTTTAAAGG GGGCTTAACA TGAATGGCAC ATGGGGTCCG GGGAAAGTAAG CAAGTGCAGC ATCTACATGT
TAGTTTGGTA CCTTATCTAC TAGGTAGTCA AGGTGGTGAC TGCCTGINTC TTTGTGGGGC ATGTGTACTT TGGGGTTGTA
AATTGG

SEQ ID NO:586: (Length of Sequence = 431 Nucleotides)

GAACGAAGGA AAAGCATCAA AACCTACAGA GAAATNTTTC AAGAAAAAGA GCGGAGAGAG AGAGAGCTGC ATGAAGCATA
TAAGANCGCT CGGTCCCAGG AGGAGGCAGA GGGGATCCTT CAACAGTACA TTGAGAGGTT CACCATCAGT GAGGCTGTTT
TCGAACGCTT GGAGATGCCA AAAATCTTGG AAAGAAGCCA TTCAACAGAG CCAAATTTAT CCTCCTCCT GAATGACCCC
AATCCCATGA AATACCTGCG GCAACAGTCA CTGCCTCCAC CCAAATTCAC TGCCACTGTT GAAACCACCA TTGCTCGTGC
CAGINTCTG GGATACCAGC ATGTCAAGCA GGCAAGTGGG GTCTNCAAGC AAAACTTGT ACTTCCCAA AGCAAGTGCC
TATGCTTGAC ANCCAGGCC TTACTTCCCA G

SEQ ID NO:587: (Length of Sequence = 338 Nucleotides)

CTCAAGCAAT TCTCCACCT CAGCCTCCCA AATAGCTGGG ATCACTGGCA CAAACCACCA TGCCAGCTA ATTTGTATT
TTTTGTAGAG ACAGGGTTTC ACCATGTNGC CCAGGCTGGT CTCAACCTCC TGGGCTCAAG CAATCCTCCT GCCTCGGCCT
CCCAAAGTGC TGGGATTACA GATGTGAGCC ACCGCATCCA GCCCACACC CTCAATTTATA CCAATTACCT GCCCAGTAAC
TGTGGACTTT TGCTTCTCA CCCCTGCTCT GATCTGGAAG GAGAGGGATT ATGTATATAGC TTGTCAGCAC AGTCCCAAAG
TTCAATATTT CTGCGGGC

SEQ ID NO:588: (Length of Sequence = 277 Nucleotides)

205

AAGAACATTT AAGTAGTTCA TACAAAGAAA TATAAATTGT NCTTAAATAT ATCAAAATAT ACTCACCTCA TTCATAGTAA
 AAGAAATAAA AAACGTGCT CTGATGACAT TTTTCATCTA TGAGATTTC AAAGNCTAA AAATTGAGAA TATACATTTT
 CTATTGCCCT TGGATGGCAA TTTGGCAGTA ACTATCAAAA GTATAAATAT CTATACCCCT TGAGGTGTCA ATCTCATTTT
 AAAGAATTTA TTCTCAGCT ATGTACATAC ATGTAGG

SEQ ID NO:589: (Length of Sequence = 353 Nucleotides)

GTAATGAATT ATAAGAATCT GAATTGAGAG CTAAATATC TGGGTGTAG GCCTACTCTG CCACGNTTTT NITATTTGCA
 AATATTAGAG CTGAACTAGA TGACCTCAA GGCTCTAACC AACTCCAAA CCTACAATTC AATGGCTGAC TGATATACAT
 TGTACTCT TTA AAAACAA TTA AATCAA AGANGTAAT AAATGTGTCA TGTATTATAC AACTATTATA CAGTGTGTG
 TGTATATATA TATATININ CACAGAGAG AAAGACATCT ATACATAGNC ATAACCATCA AATCAGTCAG AATTCCATC
 AGACACTTIN CATTTCCAG GTCCATCAGA TGG

SEQ ID NO:590: (Length of Sequence = 364 Nucleotides)

CTCATATACA TAAAAGTGA TAAGAATCCG AAAAGACAGC CAGGGGAATT AAATGCCAGT TGGGGCCAAC GGGGCCCTGA
 TCACGGAAGA GGGCGCCCC AGCTCTCAAT CTTACACAA TCCCTGCACC CAGGGTCACA GAGCATGCGC AGGTCTTCC
 CGCCCACTTC CGGGCAACT GCCAACCACC GCGCAGGCTG AGCCCCAGGC AGGAAGCAGC CCACTTGGTG GGGTTGGGT
 ATGAGTCTT CTCTCGGGG GCTCGGTGGG TCCTGAGTAT TCTTTGGCG GATTINCTGA TCCGTCTGCT CCAGGTGAGC
 TNGGAAGGC CCCAGGAAA GGCACANAAG GGCTTTGCC AGGG

SEQ ID NO:591: (Length of Sequence = 311 Nucleotides)

GAAAGGGAA TAGGGAGTGA ACGTTAATC AATAGAGTTT GGAAGATGA AAACGTTCTA GAGATGAGTG GTGGTGATGC
 CACATAACAA TGTGAGGGTA CTTAATACCA CTGAACGTGA TGTTTAAAT GGCAAAAGG GTAAATTTTA TGTATGTAT
 ATTTTACCAG AATTTTTTTT TTAAAGCTTA CTGCATGGG ACCAAGCGTG GTGGCTCACA CCTGTAATCC CAGCACTTTG
 GGAGGCCNAG GCGGTGGGT CACTTGAGGT CAGGAGTTCG AGACCAGCCT AGCCAACATG TTGAAACCC G

SEQ ID NO:592: (Length of Sequence = 358 Nucleotides)

ATTTTGGTTT CTACCCATCA TCTCTCTC AAAGGAACCA GGGTCTCTG GGGATTGGC TGATGCCAGG GGATGGAGAG
 TGTCAATTGG NTCTGAAGG GAGGCTCGCA GCATGTGTGT GGCAGGTCAG ACAGACCCAA GAGCCAGCTT GTGGGGCAT
 CCTTGGCTAC CTGGGGACA CAGTGAGCGC CGAATAAAT AACATCAGGA ATGENTCACA ACGCAATGAG TAAGGGGAAT
 CTGAGTCTAT AGGGATACAG ACCCAGAGGT AAATNGCCAT GGCCACCCAC TTTCTACAG GAGAATGTGA CTAGTTGAGC
 GTAGGAACAT GGAACAAAT GGTAGAGGT GCTGACAT

SEQ ID NO:593: (Length of Sequence = 354 Nucleotides)

GACAGACTGA AGGAATATAT GCAGCTTAAT TTAACATTTT TTGAAATTTT ATATTGCAGA AGTTGTACAT ATTINCTGTT
 GTGAAATTAG AAAGANTTGA CAGGCAAGGA GGGTGGTCTA CAAAGCACTC CATAGATCCA CCATCTGAG ACAATGCTTA
 ATGCTTTGAT GGATTTATTT ATTINATACT TTCTATGCAT ATGCATGTAT TGTATAAATA CGNATGCATG GTTAAATAGA
 AATGGTCTC CTGGGTGTC TGTATATCCA TTTATGTGT TGAAGTAAAT CCCCAAAGAG GTAGGTTTGC TTTTGCCTGA
 GGAGTCTTTT GCTACATACT GGCTGTACAT AATG

SEQ ID NO:594: (Length of Sequence = 319 Nucleotides)

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GAACATGGCC GTGAAGTCT CGGAGATGCG CTTGAACAGC TCCTGGATGG CCGTGCTGTT CCCGATGAAG GTGGAGGACA
TCTTGAGGCC GCGGGGCGGG ATGTCACACA CGGCCACCTT CACGTTGTTG GGGATCCACT CCACGAAGTA GCTGCTGTTT
TTGCTCTGGA TGGCCAGCAT CTGCTGCTCC ACCTCCTTCA TGGACATGCG GCCCCGGAAC ACGGTGGCCA CCGTCAAGTA
GCGGCCGTGG CCGCGGTGCG AGGCGGCCAT CATGTTCTTG GCATCGAACA TCTGCTTGGG TGAGCTCGGG CACGGTCAA

SEQ ID NO:595: (Length of Sequence = 370 Nucleotides)

GAAGAATANA AAGAAAATC CAAATGAAG AGTATTATAC AAGACAACTA GTCAATAGTC TTCAAAGTGT CAAGGTCATG
AAAAATTGAG GAAGCATCCC AGACTGAAGG GGAATAAGA AAAGTGACAA CTAAATGTAA TGGGTGATTG TGGATTAGAT
CCTGGAATTG AAAAGAACA TTATGGAAC AACTGACAAA TTTGAATAAG GTCTGTAGAT CAGTAACAGT ATTGCATCAG
TGTTAATCTC CTGTTTAGA TCATGCTTA ATGGAATGT TTTGTACTAT TTTTGTGGA CTCTTAAGGA ATGTGGGTGG
AGGACACGGA TGAGACCTAC TTGCATCGAC AACAAGGCGT TCTACGGACA

SEQ ID NO:596: (Length of Sequence = 335 Nucleotides)

CCACAGAGCC CCAACTCCCC CCACAGGAGC CAGCTCCCCC TCGAAGGCCT GGAGCAGCCG GCCTGTGACA CCTGAAGCCG
CCAGCTCGCC ACAGGGGCCA GGGAGCTGGA GATGGCCTCC AGCGTCAGTG CCAAGACTGA GCGGGCCCTC CAGTGTGTGTC
CAAGGAAATG TAGAATCACT TTGTAGATAT GGAGATGAAG AAGACAAATC TTTATTATAA TATTGATCAG TTTTATGCCG
CATTGTTGCT GGCAGTAGAC CACATCTGTT CGTCTGCACA GCTGTGAGGC GATGCTGTTC CATCTGCACA TGAAGGACCC
CCCATACAAG CCTGT

SEQ ID NO:597: (Length of Sequence = 336 Nucleotides)

CTCCTGAACA TCACAACTT GGTTCCTACC TACCACACGA GTAGCCAAAA GAAAAGAAGC ACTAATAGAG AAAGGGGTGT
CTCACACCAG ACAGAGGACC TCTGCTGTCA ATTAGATCCA GTATCATGAC CTAACCTTAA GTGTGGAAAA GAGTTCAGAT
CTCTGAGACA CTGTGAAGAA ATGGATGGCT CATGTAACAT CTCTGATCCC TCAGTCCCCA ACCCTGGACG TGTTCATTT
ACAACATTC TAGGAGTTAA CTTAGCAGTG TTGCAAGTTA AGGTTCNAAA CCAAATTATT TAATCAGTGT CCCCCAATA
AAATCACTTA TCCCATTTTA TTGCTAGTTT AGTTTT

SEQ ID NO:598: (Length of Sequence = 402 Nucleotides)

ACCACTACAC AATATATCTA TGTAACAAA CTGCATTCCT ACCCCTTAAA TTCATACAAA TAAAAAAAT TAAAAATAA
ATAAAGTAGG ACAATCCCC AGATAAATAA ATTAATAAAT AAATAAATAA ATAAATAAAT AAATAACTTT AGCTCTTGCC
TTCTCCTACA CATAAGTTAA TGCTGATGG GGTAGTGGT TATGCTTCTG TAACTATAA TCAGATGTAC TCTTGACCC
AACTTAGAT GCGATTTTNC GTATACTGGA ATCTTTGCTA CCTGTATATA AACTGTGGAA CTGAAAATGC TGCATTGGGA
GCAGTCTGAT AGGNTCTGTC CTAAAGGGCT ACTCTGAGGG GCTCTAGGGG CTTCACTTA CAGGCCCCA GGGAGGACTG
CT

SEQ ID NO:599: (Length of Sequence = 369 Nucleotides)

CTCAACAAAG TTTGGATTTT NTCCAGATG ACTCCTTGGG TGAATTTTA ATCAAGTAT TTCAACCATT TTNCTCATAT
ATTTGCTGCA TCCCTATTCT GGTATTCAGT GAATACATGG GAGAGGTATG TNATTCTCAG CTCCACAGC CCATAAGTCG
GGGAACCAAG ACTTCATTCC CCTCTGCTCT AACTCAGACT GTGAGGTGAT TGAGGSCAAG ACTGATGAAT TGTTCCTCTT
CCTATCACTG GTGCCAAGCA CAGTAGTTGG CATAAGAAG TTAACAATA AAGAGGGGGT GAATTTAATG AAAGACAGAG
GAAGGNGGGA CCTGGGGGAA GAGGTGGGCA TAAAGTGAAG GTACAAACA

SEQ ID NO:600: (Length of Sequence = 342 Nucleotides)

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COGCCCTCCTG GGTTCAGCA ATTCTCCTGC CTCAGCCTCC CGAGTAGCTG GGAFTACAGG CGTGGCTCC ACCACCAGC
COGGCTAATT TTGTATTTT NAGTAAAGAT GGGGTTTCTC CATGTTGGCC AGGCTGGTCT TGAAGCTCTG ACCTCAGGTC
ATCGGCCCCG CTCGGCCTCC CAAAGTGCTG GGATTACAGG CGTGAGCACTN CGCACCCGGC CAGCTGCTTC TATTTTAAATC
TGAAGTTGGA AACACCTTCC TACTTTAAGG CACAGGATCA GGGTAAGAAC CCACATGTAC GAGCTAACAG AGCTGCACTT
CAAATTTACT TAAGTTAATT AA

SEQ ID NO:601: (Length of Sequence = 319 Nucleotides)

AGTACTATTG TGCCATAAAA AAAAGAATGA GATCCTATCA CTTCGAACAT CTTGGATGGA ACTGGAGGTC ATTATGTTAA
GTGAAATAAG TCAGGCACAG AAAGAAAAAC TTTCATATT CTCATCATTT TGTGAGAACT GAAAAATTAA ACAATTGANC
TCACGGAAAT AGAGAGTATA ATGATGGTTT CCAGAGACTG GGAAAGGTAT TGGGTGGGGG GCAGGGAATG GGGAGGTTA
ATAAGTACAA TGCAATGAAT ACGATCTNGT ATTTTACAGC ACAAAGGGT GGCTATGGTC AACATAAATT TATAGTACA

SEQ ID NO:602: (Length of Sequence = 334 Nucleotides)

CACCCACAGA CTGCCAAGTG GGACAACTTT CTGGCTTTTG AAAGGCTCCT TCTTCAGAGC ATTGGGGAGT CAGCAATGTC
CGTTGTGTTA AATCAGCTGC TGCCCATGAT TAAGCCTGTA ACCCAGAGAA CCAACGAGGA CTACAGCCCT GAGGAAGTGC
TGATCCTTCT CATATATATT TATNCTGTCA CTGGAGAGCT CACGGTAGAC AAAGACCTGT GTGAAGCAGA AGAAAAAGTC
AAGAAAGCAT TGGCTCAGGT CTTCTGTGAG GAATCTGGAT TGTACCTTT GCTGCAAAA ATTACGGACT GGGGACTCTT
CAATTAATCT GACA

SEQ ID NO:603: (Length of Sequence = 410 Nucleotides)

TTTCACCATG TTAGCCAGGA TGGTCTCGAT CTTCTGACCT TGTGATCCGC CTGCTCGGC CTCCCAAAGT GCTTGTTATTA
CAGCGGTGAG CACCGCGGCC CAGCCAGGAT TATATTTTTT TAAATCAGAG AACTGAGTA CCACCTAAAG GGACTTAAAT
TATGCAATTG GAATGAACT AAAGTGAATT GAACATTTAG TTTCACCTAG ATTTTATTTT TCCTGCCAAC TGTATATGA
GAGTTTGAGA GGGAGCCCG ATTAGACTTA GAGAAAAATA AATAAATTAC ATTTTATCTG CACACATGAA TTCTAGAGTG
AGTTAAATTT ACCACAGCGG GGCATATATA TGTATATATA TGATACCTNG TTTTATATA GCTCCTTATA GTTTTAAAG
CACTTTGTAC

SEQ ID NO:604: (Length of Sequence = 399 Nucleotides)

TCTCTAAGCA AAAAGAAAT GATGAAAGAA GCAAACTTGG AGCATCAGAA AGGAAGAAAG AACATGATAA AATGAAATA
TGAGCTCCTA TTATGAACAT CGTATTACCA TTCATTGTGA AACTTAATCG TATATTTATA TATAAGCATC CTTAGAGAT
GCTGTGGGT CAGTTTCAGN CCACTACAAT AAAGTGAATA TAGCAATAAA GCAACTCATA TGAATTTTTT GGTTCCTCAG
TGATATATAA ATTAANCITC ATGCTATACT GTAGTCATTT AAGCATGCAA TAGCATTATG TCTAAAAANT GTACATACCT
TTATTTAAAA ACGCTTTTAT TGCTTAAAN AGGCTAAATG GCCCATCTGA GCCATCGGCT TTTTCTCTGG CAGAGGGGG

SEQ ID NO:605: (Length of Sequence = 372 Nucleotides)

ATGCCCTAGA AATCCTACCA CCTCCAGAA ATGATAGTTA TGGAAATTAA CATGGCATGT CAGATATGGT TCGCTGATGC
CTTGCTTTAG TTCTCAGAAA TAAGGCTTTA AAAGACTGGC ATGTTTCAGG ATGCTGTCA GGAAATGATA ATTTAAATA
CCCAAGAGTA CACTAAGAAT TATGGAAGCA TCTGTGAAAC TAATAAGCCA GTGGACATAC TGATTTTTTAC CAATGTGTCT
ACATACTATA TTAATAAACT TCCTACAAAG TATTGTCCCA ATTCAGTTCA TCTGAGGATG TGAAAACACT ACAGTGTACC
TTAAAACATC ACATTCACAA CCTGACAGA CTGAAATAAA ATGAAATTAG GG

SEQ ID NO:606: (Length of Sequence = 399 Nucleotides)

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TGCCCTTCCTT TCTTCAATTC GAGACAGCAG TATCATTAGT GTTGTATAGG TTATAATTAA ATCTAAGTAG TTCTTTGTTA
 AATCAAAGTT TACAGTAATA TCAAAGAAGA CTGGGCAAAC GTCAATAGTA TTCAGCAATT CACAAACATG GTCCTTAAAT
 TCCATAACAT CTACAAATGT GAAGTAATAT AATGCCAGAT TTTCAGAAAT CTCTGATTTT CCTTCTGTGA GTTGTGCAAG
 CTGTTGATTG TTGTTGCGGG TTTCTACAGC AGGGAATTTT CTGACTATGA ATTTACAGC AGATTCCAGG NTTTTGTCGA
 TAAGATAGGA TGGNTTGGC NTGGGNCCTC CACATGCCNT TCTTGATGTT GTAGAGGCGG GTGAGCATGC CGACGGCC

SEQ ID NO:607: (Length of Sequence = 412 Nucleotides)

CTGTACCCCTT ATAAAGAGTG AAAGCCCTGC CCCCTTCTCC TATAGAACCC CTAGCAAGGA GACTGGAAGA NTCAAAAACA
 ATCCACCCAA AAAATGGCCT GCAGGGACAC AGTCCAGAG AAAGAGACTA TGTACAACAA GGTACAGTAA GTAAGACCTG
 CCCACACACA GGACTTCCAA TCGACTTCTT AGTGCTTACT CCTACAGATG AACAGATCAA CCAGGGCCAC CAGATGCTCC
 AGGAAAGACA GGAGTCCAAA AAGAAAATTC GGTAAGTTTG AATATATTTT GAGCAAATTT TCAGTTCTGT TGAAGTATTG
 GGGGGACATT CAACAGTGAG TAGTAGTTTA GGGGAACAG CTGGCACCTC TGGCAGTCGC CTCAGAGGTC AANCCAGCGT
 NTAGGTTGCT TT

SEQ ID NO:608: (Length of Sequence = 419 Nucleotides)

ATGAAGGCAG CTGAAGTCTC CATCAAGTTT CTGCCTCCCC AACGTAATAT GGAAGTCGTT CTGGCTGTAG GACCCAGCT
 GATTGGAATT GGAAAGCACA GTGCAGCTGC AGAGCTCTAT CTGAATCTGG ACCTTGTCAA GGAAGCAATC GATGCTTTCA
 TCGAGGGTGA GGAGTGAAC AAGGCGAAGG TTGTAGCTAA GGAGTTAGAT CCCAGGTATG AAGACTATGT GGACCAGCAT
 TATAAAGAGT TCCTCAAGAA TCAGGGCAAA GTGGACTCGC TGGTGGGTGT GGATGTGATA GCTGCTTTGG ACCTGTATGT
 GGAGCAGGGC CAGTGGGGAC AAGTGCAATG AAACAGCTAC CAAGCAGAAC TACAAGATTC TGCACAAGTA TGTGGCTTTG
 TATGCAACTC ACTTGATCC

SEQ ID NO:609: (Length of Sequence = 337 Nucleotides)

GGTGAAGTT GTAGTGAGCC GAGATCATGC CACTGCCTC CAGGTTGGGT GACAGAGAGA GGCTCCATCT CATAAAAAA
 GAAAAGAAA AGCATTTCTG AAAGGAATAA AAAACAAATT GATAACATCC CCTAATCTCT AGTTGTTGGG ATGTAGTATC
 CTTCAATTTGA TCAGGAAATC ATATGATTGT CCTTAAATTA TTAAGTTGGC AGAATTTGTG TGGTTTCATA ATGATGCTTG
 TAAGATGATA TTNTAATGGA AATGTTTTAG ACTATATCTN TTGNGTTTTT TNCCTCTGTA TTTGTGTAAG GCTTAAANCT
 ACCCCCTTTA AAAACAG

SEQ ID NO:610: (Length of Sequence = 441 Nucleotides)

TAAGCCAGAG ACATTTCACT GTATTAATCT TGATACTAAT TACTAAGGCT TTTCTGTGGA CATTAAATTT GATCTGTTTA
 ATTGCAAATA CAATAAAAGT CGTGATTAT GCTTAATGTT TCTGCTAGGC TGATGACATT TTGAAAATGG CACTTATAGC
 CTGGTTGTG TGGTTACAA CTTTTGTGGC TCCAGATGCT AAAAAAATC TAATTGAGTA AGTAAATAAT GCAGCTAAGC
 GTGCCCTCT CTCTCCGAA AAGTTTTTTC TACTCCTTTT TCTCCCTGGA GAGGCCCTGC TGCACACTGA TGCTGATCTA
 AGGAAATGCC TTTGCTTCTT TGCCACTGAG CAATGTTAGA ATCACTAGGA GGGCAGGGCT ATCCCACTGG TCACTCTGTC
 CCAGCATATC TACCATGAAG TCAGCAGGGA CTACAACTC C

SEQ ID NO:611: (Length of Sequence = 344 Nucleotides)

TTTGGTACAG TAATTAGGTT TGGTTGATTC GGTATGGGG GTATACACGC ACATGCAAAC ACACACAGGG TGTGCGTGTG
 TGTATAAGG GGCATATACA CATGCACACA TATACACATA TGTATATAG GATGTGTGTA TATGTGTGTA TATATATAGG
 GTGTGTATGT ATCCTATATA TGTCATATA CATGTATATG TNGTATATAT ACATGTATAT GTACACATGT GTGCATATGT

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GTACATATAT GTGTATATAT GTATATATCC CACATCTCCA ATTINOCCTAT ACGTATATAC ACACATATAT GTTATATAGG
GTGTACAGAT ATAGGATATG TGTG

SEQ ID NO:612: (Length of Sequence = 384 Nucleotides)

TGATGACCAT AAGCCCATGC TTTTCATAGA TGTTAAGGG TTAAATGAGG TAATGCATGT CGAGTGCTCA GCCAACTGAG
ATTCAGGAAG CGCTCAATAG ATGCTGGCIG TCATTATTAA CTGAGTAAGT AATCCITTTT CCACAGAAGC AGTAGAAGGC
TGACGATGTG TGTGAAAAGG ATGGATACAA TTCCCTGGGC CACAAATAAA GGTITTTTTG GTTGTTGTG TTGTTTAAAT
GAACTGAAAT GAGTTTGAGA GATTATATA TTATTTTACA ATACTTCTTA ATGCTAGTTT AAAAAGTTCA ACAITGTCTAT
TCTACTCCAC TTCCGTATGA GATAAGTATA TGAGGGNGCT TAATCCCCG NTAACTAAG CAAG

SEQ ID NO:613: (Length of Sequence = 342 Nucleotides)

TATTTATTTT TGTTGGTGTG GACTTCCTAT GTGGGCTTTT TGGGTGACAC TCCCITAAGG GTTCAGTTTG ACAATTCINA
GAGTGTCTCT GCAGTTGGAG GCCACCAGAG GTATCTAAGC TCCCTGCTTC CTATTINATA ATCTCCAGC CCCAGCAGGT
CCACTCCTGG TTCTGTGTG TTTGGCCCGG GCACAATCCC CACTGCTTTG CTAGACGTGC TTTCTGCCAT GTGGCTTTGG
GCCTAGAGCT TGTGATAAT TGCAGCTTGT GGCAGTGGAA ATATGGCTGA ATGAGCGTCT AAACCCCTGG GTNGGGGNC
TNAANINCNN GGGTTTTTAA AA

SEQ ID NO:614: (Length of Sequence = 393 Nucleotides)

CAGTGTATT AACAAAGCC AGGAGGTGGA AGCCACCTAA ATGTCCATCA ACAGATGGAT GGATAAATGA AATGTGGTCT
ATACATACAA TGGAATATTA TTCAGCTTTA AAAAAGGAGC AAATCCTGCC ATGTGCTACA ACGTGGATGA ACCTTGAGGA
TGTTTGTCTA AGTGACATAA GCCAGTCACA AAAAGACAAA CGCTGCATGA TTCCATTTAT ATGAGGAATC TAAAGTAGTC
AAACTCTTAG AAAGTAGAAT AGTGGTTAGC AGGGGTTAGG GGGAGGGGAA AAAGAAAAGT TACTGTTTAA TGGCTATAGA
GTTTCAGATA TGCAATACGN NAATTTCTGG GGGATCTTT TGCAACCA CAATGTCCAG TATAATTCCA CTT

SEQ ID NO:615: (Length of Sequence = 310 Nucleotides)

ATTATATACA TTCTTTTACT GATTTTTTAA AATGTGTCA ATATCTTCAG TGAATCTTA ACAATCTGGG GAACTGTTTT
CCTCAATTAC CACTTCAGCA ACGTTCATAC GAAATCAAGG CTTGCCCTCA TGTGAGTGT AGGNTCAACT TTAATCGAA
GGTTGTGTT TGTCTCTAAC ATCTTCAGAG TGAGCTTTAG GGATGCCGTA AGGATGGACA GTACAAGCAA GCAGCTACTT
CCATGATACA GTGGGAAGAT AAAAAGGCC ATTCACTCA GCGTGACCT GTAAATCCAG CTTGCCCTCC

SEQ ID NO:616: (Length of Sequence = 266 Nucleotides)

GAGATGGAGT CTCGCTCTAT CACCAGGCT GGAGTTTCA GTGACGATCT CGACTCACTG CAAGNCCGC CCCCCAGGTT
CACGCCATTN TCTGCTCTA NCTCTCGAG CAGCTGGGAC TACTGGTGCC CACCACCACT CCCAGCTAAT TTTTNTATT
TTTGGTAGAG ACGGGGTTT ACGGTGTTAG CCAGGATGTT CTGATCTCC TGACCTCGTG ATCCACCCGC NTGGGGCTCC
CAAAGTGCTG GGATTACGAG CGTAAG

SEQ ID NO:617: (Length of Sequence = 376 Nucleotides)

ATAATAATGA AAAGTGAAGG GTGGGGTGTG TGGCCACCTC CATTTCITTT GCCTGGGTGG TGGTGACCAC GGCGCCCTTG
TGTCTTTTCC ATTGGTTACT GAGGACCAAT GCCCTCATGG GCCCAGGCCA CAGGCACCCA CCTGTNAGCC TCACCTGCCA
CCTCTCTCCA TGTGTGCTTN TTGCCCCTGG GGCTGGCCTG GGCATGGGGG AGCTTATNTC CCGACCAGG GGCTTGGCCA
TGINTCCTTC ACAANCCCCA CTCGCCCGG ACTGAGCCTC CACTCTCTGC TGGGCTGAGG GCTCTGTGGT NGCCAGGAG
CCCTCCACG CACGTGCCAG CCCATCCCAT CATCAGCACT TGGTTTTAAG CTTCAA

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SEQ ID NO:618: (Length of Sequence = 352 Nucleotides)

GCCCATCCTG GCTAACACGG TGAACCCCGT CTCTACTAAA AATACAAAAA ATTAGCCAGG CGTGGTGGCG GGTGCCTGTA
 GTCCCAGCTA CTTGGGAGGC TGAGGCAGGA GAATGGCATG AACCCGGGAG GTGGAGCTTG CAATGAGCCA AGACTGCGCC
 ACTGCACTCC AGCATGGGCG ACGGAGCAAG ACTCTGTCTC AAAAAAATAA TAATAATAAT AAAATAAAAA GTTTGTTAGT
 ATTAGCAGAT ACATATTACT AGGTACCCCC CATGCTCAAT GAAGTGTTGG GNTACTCTNA AAAAGTGTCC AATCTTACAG
 GTGTGACTTC CTCTGGAAC TCAAAATCTT TT

SEQ ID NO:619: (Length of Sequence = 359 Nucleotides)

AAAAAAAGC ACCCCACAA GGGGGAAGGC CCCAAGTGG CCCTGCCTG TNGTNCCTC TGGCTCCAGA GATGTCTGCA
 TAGGCTCAG CTCTCACTG GCCAATCTCC TCTTCATGGG CACCAGCCAC TGCTAAACAT CCTTCCCTCA CTCTTGTGT
 AAGCTTGTCT CCTGAGCCA CAGGTTGCAC ATCTAAACCT CAGCTCCAGG GAAAGGAAGA ACCAATGGAA GTGCCAGAGT
 CCTGGGGCAA GCCAGAGCAT CACCTGTCTG CAAACCTCTG CTGGGCACTC TAAGCAAGCA CAGGACAAGN CCCAGAGTTT
 AGTGTGTCCA GTATCCAGCA TGGNGACAGC ACATGCATT

SEQ ID NO:620: (Length of Sequence = 447 Nucleotides)

CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTCTCTCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
 CTTGCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTGT TGACTCTAAG CTCAGTGTCT TCTCCACTAC
 CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCCCCAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
 TTATCTGTCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCTGGGAT AATTTTTTGT ATTTTTTAAG
 TAGGACACGG TTTCACCATG TTGGGCCAGG CTGGTCTTGG AACTTCTTGA GGTGTAAATG ATCTTNCCTC ACCTTNTGCC
 TTCCCAAGTG CTGGGATTT ACAAGGTTT AAGCCACCG AATCCAT

SEQ ID NO:621: (Length of Sequence = 237 Nucleotides)

CAATACCCCT GGTCTCTGGG GCAGGTGTTC TGGGATCCTG GACAGGAGGG TCAGGTGAT TTTAACCCAG AGAGACCTGA
 TCTCATCACT GTCCTTTAGA GGGGAGAGAA GTTCGTNCCG GCCAAAGGGG ACCAGTGTGT AGAACTGCTC CTCCAGCTCC
 TTGGCGATGT CACTGTGGT CCTGGCGTIN ATGGAGCCTA CAGGGGCCCT AGGACCACTG CCCCCNTTGG CAGCGGC

SEQ ID NO:622: (Length of Sequence = 247 Nucleotides)

AGAAGGTCAA TAATAACAA CTCTTCAAG GTAAAGCAGG ATGTGGGAAA CCATTGCAAG GAAGCTAAAA ACCTTGAAAA
 AAGATTAGAA GAATGGCTAA CTAGAATAAA CAGTGTAGAG AAGACCTTAA ATGACCTGAT GGAGCTGAAA ACCATGGCAC
 GAGAACTACG TGATGCATGC ACAAGCTTCA ATAGACAATT CGATCAAGTG GAAGAAAGGG TATCAGTGAT TGAAGATCAA
 ATAAATG

SEQ ID NO:623: (Length of Sequence = 315 Nucleotides)

AATTTAGGTT TGTTTTATTT AAGTTTAATG TTAATTCCAT GCTGTGTTTC AGTAAGANCA ATACAGATTG TGTATCTGTG
 GCTCCAGTCA GATATCCAGT AGTACAAATN AGCTTCAAGT TACACATACT GANCAAAAGA GGTGAGCGA GCGAAGGAGG
 GGAGGAGTGA GGGGAAGGAG GTAGGGGGAG GGGGAAGGAG AAGAAACAAA AGANTTGAAC AGGCATGCAG GCTTTTCCAT
 ACCACCTTCA ACGCTAACCT GCTTCAGTGG GAGAGTAAAG TAGGCAAGAN TGAGCAGCCA CGGATTGTTG AACTG

SEQ ID NO:624: (Length of Sequence = 375 Nucleotides)

CCATGTTGGC CAGGTCTCGA ACTCCTGGCA TCAGGTGATC CGCCCGTTTC AGCCTCCCAA AGTGCTGGGA TTACAGGCTT
 GAGCCACCAG GCCTGGCCCG TTAATATGT TATTTTTTAA TGCATTAGTA AAAAAAATAA AATTTTAAAT TGCTAGAACA

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TTAAATATCA ATACCCACAT TAATAAAAGC TATTTGGGAG CCTTAATAAT TATCAATGGT GTAAAGGGGT CCTGAGACCA
 AAAAGTTTGA CTTCACCAGG TGTTTGAACA CTACAGATCC CATCTTGCCC ATGAAGCTTC CCTAGACATC CCCACCCAC
 CGTGCTCCT TCTGCATCCT ACAATAGCAT CCACTGGTAA GGGCCACTTA TTTTA

SEQ ID NO:625: (Length of Sequence = 305 Nucleotides)

GTTCCTAGAT TACTCAAATT TAGTACTCTT CCATCTTTTC TTGTGCTAT TCTTTTAAAA TCACAAGAAG TCCATAACTT
 AAGTAGGAAT TTGTATAATG TAACCTATTG TGAGTATATT TCCTTACCAG CTCATAAAGA ACTATGTAAA CTTGAATGCA
 TATTTTINAC ATAAAAATAG CAAAAAATAA AAAANCAAAA AAAAAACAGT ACTGGCCCTAA TACTAGINGA NTTACAGAAT
 ANGGGTAAAT ANTACATGNN CATCCTTACA GAGTGAGCAT AAACAATACA TGGTAATAAT ATTTA

SEQ ID NO:626: (Length of Sequence = 300 Nucleotides)

AGCAATCACA TAAGGAAGGC ACCTCGAGTC TAGTAACACT GTGACTCTTG CGGTCTCTTA GAGGTACTTG GTGGTCTTGG
 ATAAGATCTG GAAGAATTCT TTGGATTTC AGACATAGGC TCTGTGCTC TTCCCTTACT TTCTCCCAA CAAATGGCAT
 CTCTCTCTCT CTCTCTCTGT GCTGAGCTGC CTAGAAGTGT GGGTGGGATC ACACAAGCAC CCTTNGGCC ATTGCCCTTG
 GGACTGTGCT AGGTCAGACC TGAAGTCAGC ACAGCATTGG GTCTCACCCA ACACCTGTGG

SEQ ID NO:627: (Length of Sequence = 369 Nucleotides)

GAAAAAGAGA GAGGAGAGGG AGTCAGGAGT GCTTTGGAAC TGGAGGTTTG CTTTCCACTG ACAACATCCA TATCTNCTGC
 TAATGCCAAC ATGCTCCCAA GTGTCTTAGT GGGTCCACA AAGTTGATCC AGCCAGAGG AGTTGCAGGG ACAGTCAAGA
 AACCAGAGGT GCTGCCCACA TCCCACATC TCCCTTTCC AACTTCCAG CCTTGCCCCA AAAGCAGCAG CTCAGGACAA
 CCTGAGATAC TACTGATATG GGTCCCGGG AGGAGGACAG CAGGAGTCTG AACTCCAGAG GAGGGGGAAT ATGGGTAAAA
 CAGAGAGATG GCAAGGAGAC AAGCTGTC CAGACAGAGG GATGGGAGG

SEQ ID NO:628: (Length of Sequence = 310 Nucleotides)

TTTTTTTTTT TGAGACAAGA GTCTCACTCT ATCACCAGG CTGGAGTGCA GTGACATAAT CATGGCTCAA TGCAGCCTCG
 ACCTCTCAGA CTCAAGTAT CCTCCACCT CAACATCCA AGTAGCTGGG ACTACAGGAG AGCCACCATG CCCAGCTAGT
 TTTINACTTT TCTGCAGAGA TGGTGTCTT CCATGTTGCC CAGGTGGTTC TCGGAATCC GGGGCTCCAG CGATCCTCCT
 GCCTCAGTCT CCCAGAGTGC TGGACCCACA GGCATGAGCC ACCACTCA GCCCCAAAT CCATGATTTT

SEQ ID NO:629: (Length of Sequence = 443 Nucleotides)

CGCAGAGCAG AGGGTGGAAA GGCAAAGAGT ACAAGTGAGC GAGCCCTTTT TGTGATGGCG TTGATCTGTT TACAAGGGGA
 CTGCCATAAC ACTTTCCATT AGCCCCACT TCCCAACACT GTTGAGTGT TGCAGTTAAG TTTCCAACAC ATGAATGCTG
 GGGGACACAT TTAAATTAGA GCAGTGATGA TCAGAAAGTT ATGTGTGGGA AAGGAGGTC TATTTTAACT TAAGTAGCTT
 GAAAAAGCTC TTCAAGGAGT TGATACAAGA ACTGAGATTT GAATTAGAGG ACOGAGTAAA GTGAAGAATC TCGGGGCAAA
 GTCCAGGCA GAGGGAAGAG CAGGAAATGA TTCATCAGTA GACTTGCTCT CCCATTCTCG GCAAGGGCTA TTTACATTTT
 TCTTCCACTC TCTTCTCAG CACATCTCCA CCTGGGTTTT CTC

SEQ ID NO:630: (Length of Sequence = 263 Nucleotides)

TGGATGTGGT GAAAGCGAA CACTTATAGA CTGCTACTGG GAACGTAAGT NAGTACAACC TCTATGGAAA ACTGTATGGA
 GATTTTTTAA AGAACTAAAA GTATATCTAC CATTTGATCC AGCAATCCA CTGCTGGGTA TCTACTCAA GGAAATAAG

212

TCATTACATC AAAACACAC CTGCACACAT ATNTTTATTG CAACACAATT CACAATTGTA AAGATATGGA ACCAACCTAA
GTGCCCATCA ACCCAATGTA GGG

SEQ ID NO:631: (Length of Sequence = 221 Nucleotides)

AATTTTINACA TATCAGTAAT TGTTTTATA ATTGTGGT TTATGAAAC ATTGCTATGC ATTTATTAGG AAAAAGTGAA
TTTCCCAACA GGTGAACGA AAAGNTATTT TAACTATTAT ACATAATCAA GATCCTGCCT CTACGGAATT AGCTAAACCT
AAAAATGTTT GCATTAAATGN ATAAATTCCT CCNGCATTC TGGGCGNGN TCTGGAGGTG G

SEQ ID NO:632: (Length of Sequence = 344 Nucleotides)

TGTGATGGAG ACAAATACTT CAGTATTGGG ACCCATGGGA GGTGGTCTCA CCCTTACCAC AGGACTAAAT CCAAGCTTGC
CAACTTCTCA ATCTTTGTNC CCTCTGCTA GCAAAGGATT GCTACCCATG TATCATCACC AGCACTTACA TTCTTCCCT
GCAGCTACTC AAAGTAGTTT CCCACCAAC ATCAGCAATC CTCCTTCAGG CCTGCTTATT GGGGTTGAGC CTCCTCGGN
TCCCCAATT TTGGTTTCAG AATCCAGCCA GAGGACAGAC CTCAGTACCA CAGTAGCCAC TCCATCCTCT GGAACAAGA
AAAGACCCAT ATCTGCTCA CAGA

SEQ ID NO:633: (Length of Sequence = 378 Nucleotides)

GGTCAGACCT GAAGCCGCA CAGCGCTGTG ACTGCCCAAG ACCCCACTG TAACAACAAC CCAGCTGCCA CCTATTTCAC
TCAAGGCCCC AGGGCTCTCC AATTAGCAGG TAGTGAAGCC AGCCAGGCTT CTNTCCTTCC CTTCAGTGA GTAAGTCCC
CTGGTCCCTA GATGCATTCA AAGGTGCTGT CTGAGAGCCA GGGCTCTCAG TCATAAACCT TATAAATCTA CCTGGNGTTC
TGTTCTACCA TCGCTGAGCT GGCAGTGAAT CCACCCGCA AATCCCTTCC CACTNTCCCC TCCCCCTTN CCCAGGCAGG
GTAGTCTGTT NCCACCTACG ACGTCATCAC AGTCTCATGC GGGATTACTG CCAGCTTC

SEQ ID NO:634: (Length of Sequence = 287 Nucleotides)

ATCAGTGGTC TACCACAGNT TAAGTAACGG GTCATATTG GAGTATCACA CATCTCAGTC TTGTAGAAAT TAGGNACAGC
AATTAGGAGT CATGCACATA TANGAGATGT AATCCACCT TTTGACTATA GCCTACTCTT GTNTTTTACA GAAAAGACTG
TGGNGGAAGA AAACCTTTA CCTNTTNTT CAGGGAGAAA CTNACANCAC TCANCTGCCT GGCAGTGAAA ATNTGGCATC
CAGTCCACTT TACCATCAGT GTTAAGGAA ACCATCTCTG GTAAGC

SEQ ID NO:635: (Length of Sequence = 226 Nucleotides)

TTGGGATGAT GCTTTTATTA AACGGAAGCG TCCAAAAGG TCTGAGTCAA TGGTGGAGAG GGCAGTCAGC CCTGTGGCAT
TTCAGGGCTC CCCACCGATA GTNATCGCA GTGCTNACTG CAATGTGATA GAGATAGATG ATACCCTCGA CGACTCCGAT
GAAGGATGTG ATCCTGGTGG AGTCTCAGGA CCTCCACTT CCATCCTGGG NGTGCCCTC CCCTCA

SEQ ID NO:636: (Length of Sequence = 367 Nucleotides)

AACGCAATAA AAAGACAAAT TCCAAAATGG GCAAAGATC TGAATAAACA TTTCTCCAAA GATATGCAA CAGCCAATAA
ATACATGAAA AGATGGCCAA CATCATTCAT TATGCATTGC AGAAATGTAA GTCAAAACCA CAATGACATA CCACGTTGCT
CCCACTAGGN TAGCTACAAT CAACAAAATG GACAGCAAAA AGTGTGGTG AGGAGTAGAG AAATCTGAAC CCTCATGTAT
TGCTAATGGA AACACAAAAT GATGGAGCTA CCATGAAAA CTGCTTATCA GTTTGACCTC GGAAGTTAA ACACAGAAGT
ACCACATGAT CCAGCAATTC CACTCCTAGG TATATACCCC AAGGACT

SEQ ID NO:637: (Length of Sequence = 384 Nucleotides)

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TTCAATAAAA TTTTACTTAA AATCTGTAA GCTAGATATT GACTATCCTT AGTTGAGTCA CTGAGGTTTA AACACAATGG
 TAAGTCTTAA AGTCTGCTAT TTACAGAGCA TTGAATCTGT ACCAATTTGC AATAGAAAGC CTTCAAGTATG CAAGAAGTTT
 GCATGGGTAT TAAGAACACA GCTTAAATAA GGCATTTGAT CTAATCTGCA GGAAGAATTT TCTTCCCCAA AACAGAATTA
 TAAAGCTTA CTTTAAACAG GAGGCAGAAT AATTCTTTTA GGAAACCAAT TCATTCTGTT TCTACTAACC TATACCATCT
 GAGGAATTCT AGGGAGGATA ATAAAANTCT CGTGTATTCC ACAGCAAAC TACATACCTT AAAG

SEQ ID NO:638: (Length of Sequence = 409 Nucleotides)

GAAATTTTTC ATCAGCTCTT GTTTCCTCTC ATTCTTTTIG ACCTTGTAAGA TTTATCCTTT TTTCTTAATT TATTCTCACT
 TAATGGGATT TCAGGAGCAT ATTGACTAAG TTTTCATTTT TACATGTATA CTGGGGAGTA TGACATAGAC ATCTCTGTAC
 TTAGATATTA CTGATGTAG TCTACTTTGA ATCAAATGAA CAGATGTTTA AAAAGTATTG TNCCTAATTG TTTTAAATGAT
 TTCINCTGT GAGTTGGGT GGTGCTGCCC ATCACCACCT CAGGACGGT ATTTGAAAAT ACCTGGGNA AATTGTAAACA
 ATGTCGCGGA AAACACTGCA GGATATTTTA ATTGGGCAGA GGGGTCAAGG GGATGGATTA ACCATTGCGG AAATGTGAGG
 GACGGGTCC

SEQ ID NO:639: (Length of Sequence = 197 Nucleotides)

GGTCTACTC ACGGCTCAAG AGCATGGCTC AGGAGGAGAT CCGCAGAGAG ATGGACAAGA TNATCGAGGA CCTGGAGCTC
 TCCAACAAAC GGCATCACT GTTGCGAGCA TTGTGGGTG GCATGAAGCG CAAGTGTACC GTGGCCATCG CCTTCGTGGG
 CGGCTCTCGC GCCATCATCC TGGACGAGCC CACGGCG

SEQ ID NO:640: (Length of Sequence = 398 Nucleotides)

GAGAAGGAGT TTGCTCTTG TCACCCAGGC TGGAGTGCAA TGGTGCGGC TCGGCTCACT GCAACCTCTG CCTCCCCGG
 GTTCAAGGGA TTCTCTGCC TCAGCCTCCT GAGGAGCTGG GATTACAGGC ACCCGCCACA CACCCAGCTA ATTTCTTATT
 TCCAGTAGAG ATGGGGTTTC ACCAATGTTG CCAGGCTGGT TTTGAACCTC TGACCTCAGT TGATCTGCCT GCCTCGGCT
 CCCAAAGTGC TGGGATTACA GCGGTGAGCC ATTGGCACAC AGCCTTATCT GCATTTTCAA ACGGGCCAGT ATGGATGGGT
 TTTACTTAA TACTINGAAG GTCATCCTTT TNAAAAANG AACCTTAAA ACCATTAACT ATATATAAAA ACTATATT

SEQ ID NO:641: (Length of Sequence = 402 Nucleotides)

ATAATTTTNA GCAAAATGAT ACAAACTINT NTTAACCAAG TAGAAGATTG GTAGTTACAG TGGAATCGTC AGGGAGTACA
 GGGCGGCCAC CACTGGAGGG AGCTGAGGCC CTGGAAAAGG AGTCTGATTG TGTGCAATTC TCTCTCTGCT TTNTTCCCA
 GCCCGTTAC AACCGAGTTC ACGTGGGGG COGCAGTGCA GCCCCAGCG TGGCAGCTCT TGGAGTCTGT CCGTTTAGTA
 TGTTCCTCCC ACGAGCGTGC CTGGGTGAGT GGCCTGGAGA GCTCCCGGTG TTAACATTTT GATCCTAGAC CGGGGGGAGG
 TGTCACTAGG TAAAGGCCAT TGGGTAAACA GAGTAGATCA GGCCATGGCA TTTGTCTGGC CCCTTTTACA GCAATTAAGG
 GG

SEQ ID NO:642: (Length of Sequence = 395 Nucleotides)

CTTCAATGAT GCAATTCGAT TAGCTGTGTC TTACAAACAG AACTCCAGG ACTTCATGGA TGAGATTTTT CAGGAGCTCG
 AGAACTTCAG CTGAGAGCAG GAAGAGGAGG ACGTGCCAGA CCAGGAACAG AGCAGCAGCA TCGAGACCCC ATCAGAGGAG
 GCGGCTCTC CCCACAGCTG AGGGGCTGGG GCTAGGGGTG GGTGGAGCCC TTTTAAATA CCTTCCCTT CAACAACTCT
 CCAGCTCTGA ATGGAGAAAC TCTCTAGGNC ATCCCTCTT CTACCTCTG CAACCCACCC ATCCTATTAG GCTNCCACAT
 TCTAGGGCCC GTGATACAGG GGATGAGGGT CAGCAACCAG CAAACTCTN GGACTTGTG GGAAGAATTT TCCCC

SEQ ID NO:643: (Length of Sequence = 325 Nucleotides)

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GGTATCTTAA AGCCTTTCAG GGATTTCAT AGACACATTT CTTTAGCTGA AATCTATTCT CTCAGAACT TACCCAACT
TCTTAATAAT GTNCAAATTC TAAGAAAGAT ATCATGGCTA CACAGCACCA GGNAGAGCAC ATTATTTCTC TTCACAATTC
CCTTG CATAG CATCATGGCT TOCTAAGGCG TTTTAAGTTT ATTGCTTCAA CTGATTCTCA TAAAATCTCT GAGATGCTAT
CTGGAAAGTA TTATTATCCC CAGTTTGCAG ATAAGGCAAC TGAGGTCTAG ACTTGCTAAA AAATCACACA ACCAGGTAAG
TGGGC

SEQ ID NO:644: (Length of Sequence = 373 Nucleotides)

CTTCACATCA GCAGCCGGAC GAGGTGACTG AAAATCCAAA ACAGAAAATT GCAGCAGAAA GCAGTGAAAA TGTGATTGT
CCAGAGAATC CTAAATGAA GTTGATGGA AACTTGACC AAGAAGGCAA TGATGTAAA ACAGCAGCTG AGGAGGTACT
AGCTGGTAGA GACACATTAG ATTTTGAGGA TGTCACAGTT CAATCATCAG GCCCGAGGCG TGGTGGTGAA GAATTAGATG
AAGGTGTTC AAAAGATAAT GCTAAATAG ATGGTGCCAC TTAAAGCAA TCCNGAAGG ANCCAGAGGA GCGAAGGATG
CAGATCACTG CACCCGTACC CCAAAAATTG GAAAGTCCCC TCACAGGCCA TTT

SEQ ID NO:645: (Length of Sequence = 310 Nucleotides)

TTTTTTTTT AAGACTCAAG GTAATGAAA CTATGAGTAG AATAGTAAGG TGTGACAGGG GACAAATAAG TAGATATAAA
ACTATGCTGC AATATTTTATG TTATTAAAGC TGGGAAATAT GCAAATGTAA GTAGTGCTTG GAACCAGAGA AGGTCTTATA
TTTAGCTGT CTCTGTAGC TAAATCTGAC AAATGAAAA ATATCATATT CTCTGCTCTA GGTACATTTT ATGTATATTT
TGACAGCATA TCAAATATAT GANACATTAG GTTAAATAAA TTAAATCCA GTGGGATAAA CTATATGGGG

SEQ ID NO:646: (Length of Sequence = 362 Nucleotides)

CTTGGGATTG CTAGATCAGT GTTTAGACA GGAATGCCAA GGCAGAAAAG AATCACATAT CCAGGACCAC ATAAAANCTG
GAGTGATGT CATAACAAAT TTNCTCCTGT GCTTAGAAGT TTTATGGCTT TGGATTTTAC ATTGATGTTT GCAGTCCATT
TTGAGTACT TTTGTATCT GATATGAAAT ATACCCAAGT NCATTTAAAA AATAAGATTA TACAGTTGTT TATGGAATGC
ATTTATGTAC ACGGGTAATC TGTTTTGATT TTGTTGTAT GTTAAACAT CTTTATTATA GTATTNIGTA AGAGTAGGTT
AATATTGACC TTGGGCATTT TTAAACCAAG GGGGGAATTT CC

SEQ ID NO:647: (Length of Sequence = 226 Nucleotides)

TTTGGCGTC AGATCTGTAA GTTATTGTC TCAATGTACG ACAGCTACAT AATGCTTAC ATTATGATA TTCCATCACT
GAGGAACTG CTAAAGATGG TCCGTGTGTG AAATAATTCC TTAGAGAAAC ACGGAGCTGG AAAAAATC ACTGATTAGA
CCTTAAAAAT AGTTCACCTG ATAACATGNC AAAAAGCACA AAGGCTCATT CAGAGAACAT ATTTGT

SEQ ID NO:648: (Length of Sequence = 198 Nucleotides)

AACTAAAAAG TTAAACTTT TACAAAACAA CAAGTTTTCC TTAAATTATG ATTTGTTATT ATAAAANCTA GTAAGAAAA
ATTCCACCAC ATGAAAGCAT TTNTAAAAT TCATACCCCC GTACCTATTT TTAANTACAG TTGGTAAATT GATTAAGCTC
TATTTNCATT TTGANTGATC ATCGGTTTTA TTTTATTT

SEQ ID NO:649: (Length of Sequence = 337 Nucleotides)

ACATCTGCAG CCATATATGA GGTCCCTCAT GAGACTTAGC AACAAGGTGT GTTTAATGT GACAGTGTGT CTGATGTGTC
CCCAGCAT TGGGACCACT ACACAGTGT ATTTGTACAT CTGCTGAGTA ACATGAGTG TGTGGGTAAC TAAAGCCCTC
AGTAATTATT TACTTAATG TTTCAAGCT TAATCTGAT CTGTACTTG CATGATTTAT TATTCCTGT GCTAAATCT
TCAATGTCT TGCTTGATT GATCTGTCAT TATCTATCAC TTAATAAAA TANTAAATNC CTTTAATTAA GTCATGGTTA
AATGAGGAC TTGTTT

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SEQ ID NO:650: (Length of Sequence = 286 Nucleotides)

GGGTTGAAAG GAAAGGTGAC AGGAAAGATG TGTTTAGCAT CCATGAGCAG CTGGGGAGAG TCTTTCTGT CTCGTAAACG
 CATCTGAGAA GATTAGGAAA AAAAATAAAC AGAGCATCAG TTCTTTGAAT CTAAAAGACT TTNTCTACT AAAATTTCTA
 CCTCAAATT CTCAACTAAT GAAGANTGTT TACTTTTGGT TTAAACTCAC TTCATTTTCC CAATTAACCTA TTATCAAAAA
 AGTTAGTGCA TTGTAAAATA AGNTAATAAA GGNTAACACA TTATCC

SEQ ID NO:651: (Length of Sequence = 360 Nucleotides)

GATAATGTAA ATTTTTCCTT CTGGGCTTGT CATCAGGATT GCAATTTTNA GATTAGTIT GCTAATTGTT TGGCCTTTGA
 AAAATTATAT ACACTTGGTT TGTTTTGGTT TTCTTAAGTC AAAACAAGGA AATAAAATCA CATTTCCTTT CCAAGAAAAG
 ATAAITTTTA AGTGGTTGTT TAGTGTTTTG TGTCTTTGGG GGTGGGAGGG GGTGTGTGGA ATACACAAAC ACACACACAC
 AAACACACAC AGTCTATATA TAANCTTATT GGAGCCATCA CTATATTTTA AGGAAATGNN AAATAATCTA TTGAAGCTTT
 AAAATTAGGA ATTTTTCATT TAAGCTAAGG AGCCTATTTT

SEQ ID NO:652: (Length of Sequence = 353 Nucleotides)

GTGGTGGGNN CCTGTATCC CAGTACTTGT GGAGGCTGAG GCAGGAGAAT CGCTTGANCC CTGGAGGCAG AGGTTGCAGT
 GAGCCGAGAT CGAACCACTG CACTCCAGCC TAGGTGACAA GAGCGAAACT TTGCGGCAT TTACACTCTC AAAAGATTTA
 ACGCAATTAC AATCAAAAA CACTTGTCTAT ATATAACACT TTTTCACATG GAAATAAATT GGTGGTTTAA GGTTCACAT
 TCCTTTGAAT AAAATTTTCAG TTATTAGTTA CAAAATGCTA AGACAGATTG AGGTCTCAA GAAAGANCTT TGAGGAAAT
 TTATGGTTTT AAAGGGACTT TCACCAATA TGA

SEQ ID NO:653: (Length of Sequence = 224 Nucleotides)

AAGACAGGGA NTACTTTTAT CAAAACCCAT CACAGAAATG GACAGCTTGG GTCTGTAAAC AAGCATTCAT GTTTTAGNGC
 ATAGGTCAGT AATGTATAT GAGAGCATAC ACTGCTACAT ACAAATTAAC TGNICAGACC ACAACTTTTC AATGTTTTAA
 ACAGNATAAG CTTCCCTGTA AAAGCAGCAC CTTTGTGAC GNTTAACTT TAGTATTCCT CTCC

SEQ ID NO:654: (Length of Sequence = 353 Nucleotides)

GTCAACTCTA TTTTCCATAT GAATTATTAG ATTTGGTGCT GTCTGTGAA GTAACCTGAT ACGATAGATG TGTAGTATGA
 ATTTTGTCCA CATGGTTGTG CCTTGGCAG AACTGCACGT ACCTGAAATG GTTCCCTAAT TTTTTCCTAG TATTACTATC
 CAACACTTCC TCTCATAATC ACTAGTGTAT TGTATAATIG TTAAGTGTCC TTTATTCATA TATTTAAATT AAAAGAATAC
 TCTGGTAGGA TTTTGAAGGC CAATAGTGT TTTCCACTGT TTGAGGTATT AGGAGGGCTA TTTACTGATA CCTGTAGTGC
 CTTCCCATTC TGGTTTATCA TGCACCTCTA AAT

SEQ ID NO:655: (Length of Sequence = 365 Nucleotides)

GAAACTINACT TCACATTTCT CCAGGGAGGG ATGCTTTGGA AAACTGCTC AGTGAGATGA AGCACAGATC TGCTTTTINAT
 CCTTTTGTGA CCTTTTAA GACATAAGGT ATGTTTGTAC ACTGGAGTAT ATATGAGGGT TGCTAACGTT TAGGTTGAAA
 GAGCTGCTGT TGTCCACAGC TTATTTATTT NCCACCCATT TTGTCTCCT GGCTCATCC AGTTACATTT CCTGGGATAT
 GTTTTGGAG GTTGTCTAGA TCACGGCACT AGAGTCCCTT TGGGTTTCTC CTCCCTCTC TGTCTATTTG GCTCGCCCT
 TGACAAACAT TCCCCACATT CACAACCAGG CCTTTGGCTA AATGT

SEQ ID NO:656: (Length of Sequence = 372 Nucleotides)

GTATGAGTTC TGAGACCAGC CTGGCCATCA TGGCAAAACC CTATCTCTAC TAAAAATACA AAAGTTAGCT GGGTGTGGTG
 GCGTGCACCT GCATTCTCAG CGACTTGGGA TGCTGAGGCA GAAGAATGCG TTAAACCTGG GAGGCAGAGG TTGCAGTGAG

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COGAGATCGC TCCACTGCAC TCCAGTCTGG GTGACAGAGT GAGACCTTGT CTCAAAATA AAAGAAATTT ACTGCAAAGG
GATGTTGCAT TTCAGGTGAA TGTATGTAGC CTTTCAGAGG CCGGGCTATT TATTAGATGT ATTTTATAAC TGAGGGTTCT
AGGTAAACAC AAGCCAAACA GATCCACCAG AAGCCTAGAG CTGTGGACTC TT

SEQ ID NO:657: (Length of Sequence = 334 Nucleotides)

GGTGTGGGAA AAAAAAOCCT CCAGATAAGA TTGTGCCTGC TTCATTTTCT TGTGAGGCTG CCCAGACAAA GGTTACTTTT
CTGATTGGGG ATTCTATGTC ACCTGATTCA GATACTGAGC TTGGAAGTCA GGCAGTGGTG GATCAGATTA CCAGACATCA
CACCAACCA TTGAAGGAAG AAAGAGGGGC TATTGATCAG CATCAAGAAA CTAAACAAAC AACCAAGGAC CAATCTGGAG
AGTCTGATAC ACAGAAATG GTTCTGAAG AGCCCTGTGA ACTTCCCTGT TGAATCATT CAGACCCAGA AAGCATGAGC
TTATTCGACG GATA

SEQ ID NO:658: (Length of Sequence = 286 Nucleotides)

ACAAACCAAC TGCATTTCTT TCTGGATATT GTTGAACAAA AATAGCATTC AGTTTACCN CTAGTGCTAA CAGAAGNGNC
TCAAGCTGTT CCCCCATCAT GGGNGCAGCC CTTAACAGAG GGCTGCACAA ATCTGCAGTG CTGCTCTGGG GAAGGCTNCA
AAGCACTTTT TTCCCAAGAA GGGATGCTGT TCANGTCTGT TAGGGGAAGC ACACCGNCTN TGCTGGGCA CAGATGAAC
GCCCTTCAAG GCAATCATCA TCTTTTCT AATAGGGAAG GTTTGG

SEQ ID NO:659: (Length of Sequence = 321 Nucleotides)

GGTCTTTATA TGTTCCGAG ACAGGACTGA AACTCCCTGC TTCAAGTCA TTTTCTAAG TAGCTGGGAC TATAGGCTGT
TCTTTTCTT AAAGGAAGGA TTTTATGTT ATCATGAAGG AAAATAA ATTTGGCTAA CTTAAAGAGT TATTATCAG
GAGACACTAT TAAAAAAGG CAAATCAGAA ATTTGGAGAA ATTTTAA ATACTGATAA TAAGACAGAA TTGTACCCTG
TAACCATAAA TATGTAGAAT TTCTACCATA TCAATAAGGT AAGTTTCT GTTGTCCAC ATCTCTTGC ACGGTGGGT
A

SEQ ID NO:660: (Length of Sequence = 302 Nucleotides)

TTGTTAAGG ACATAATGTT TTGACTGGG GATCATGTT GGCTGATGTA AATATTAAAG CCAAATAGG AGCTAGGATG
AAAGTAACAC TGTAATTAGT AGTAGAATTT ATTTCATATT AAAATGTTG ATGACGTAAT TTTTATGGCT TGGCTCAAGC
AACAAATTTT AGAGTGACC CTCATTGATG CTACTCAGAG AGACGTGGAT GTGCTGTTAC TGCTTTCTAA CTCGCTAC
TACGTGGCCT ATTATGATGA TGAAGTTGAT AAAGTAAACC AGTATCAACG NCTAAGTCTA GG

SEQ ID NO:661: (Length of Sequence = 249 Nucleotides)

AAAAAAAAAA ACTCTCAAGG GTCTAACTTT ACCCATCATA AAATAATTTT GTGCAAGGG TAGTGGCACA TTTTATTAT
TTGGGATACC ATGCAGATGC AACCTAGCCC CATTCTTTAT GCAAAGTAGA TTATCCGTGC ATTTCTTCTG CATTGNTAGT
GAATCCTTAC TGGGGNCAAC TCATTCCATT TGGCAACAAT CTTTAATGNN CAGGCAATAT ATAACATTGC TGAAGTCTCT
TAGCACTAA

SEQ ID NO:662: (Length of Sequence = 340 Nucleotides)

TTTTTTTTTG GCAGCCTTGT AAGGAGAACT TCACCATTTT CCAGCACATC CCTATGTGTG CGCTATTTT AATGCACCTC
TCTGAAACAG AGACCTTTT GTTCACAACC ATAACFAAG CTGGAAAGTC AGTCTTCAGG CAAGGCGAGG GAGGAAAACA
TCCCAATAGA ATTTTTTCAG GAAAGACTTA TGGNAAAAA TATCTCTCTC CCACCTCTT TTATCCCAT GAGACACAGT
TTCCCACTGT AATCAGGGTA ATATGCATTT NTAAGTCTG ATATGTGATA CATTTATGTG ATGGCAAAGA TAAGTCTGT
TTGCATGCAG GGTACTAGAG

SEQ ID NO:663: (Length of Sequence = 325 Nucleotides)

CACAACAATT CTATGAAATT AGCTGGGGAG ATACTGTCTT TATTTTTCAC AGCTGAAGAA ACCAAAGCTT TGGGAAGTTT
GTGACTTCTC TGAGATCACA GCTGGTGATA GAAGGAGCTG GGACAGCGC TTGGGTGAC TGGCTTCTGG TTTTGGTTCT
CTGGCTTCTA GTGCTGGAAG AAGCCCTCTC TTCCCTTCT CTTTCTCAG TAGCATCTGA CTCTTTTCAT AAGCAAACAG
CTGTATAAAC AAAGCCCCCA TTTTGGTCAA GCACAGGGTG AATGTGATAT TTGTTCCAC AACCTTATTC TNCATCAAC
AGCCG

SEQ ID NO:664: (Length of Sequence = 300 Nucleotides)

TTGCTGAGAG AGATGATGTT TCATGGGTGA TGTCTCTGGA AGAGATTGGA TAGGACCCAA GCACAGAGCA AGAAATTGGC
TTTAGGCAAG TCAGATTTGT CTTATACTAG TTAGGAGTAA AGAGAAATGG ATGATACAGA TGCAGCTATG TTCGTAGGAG
GGAAGTGGAG GGAATTTCTG TGTGATGGCT TTAGTAATGT AGGCAGCAAG GTCAACTACT GACAGTGAGA GGAGAAATTC
GGGAGGGCTG GTCACAGTTT GAAGTAATAG GTCATGGGGA GGCAGATGTT TGTTGGGTGA

SEQ ID NO:665: (Length of Sequence = 327 Nucleotides)

CAATAAGAA CCCAGAGAGA GGGAGAGATT CACAGACAAT AGCTTAAAAA GTCTAGAAAT TATAGACCGA TTGAGGTCAG
CAAGAAACAA ATTATTCAAT ATATCCCTG AGGGCTAGAG CCAGACTTTC CCTATGATT CCAAAATTAC TTCGCAGTTT
CATTAGGGTG AAAGGCAGTG CAGTCTCATG AGTTCAGAAA GTAAAGGTG TTCTTAAAA TTAGATAGA CTTGACAACC
ACTTAGGATG GCATTTTGGC ATTCTGTCCC TGCTCATCAA AGAAGTTGCT CAAATTTGTG GGTAGAGGA ATGAGGAGCA
AGAAGTA

SEQ ID NO:666: (Length of Sequence = 319 Nucleotides)

ATTCCCAAGG AGAGGCTGAG ACAGAGAGGC TTTGAGCTGT TCCTCAGCCC CCTACCCATA CTCCCTCCCT ACTGTTGATC
AGGCTGGTCT CTAACCTCTG ACCTCAGGTG ATATGTGTGC CTCAGCCTCC CAAAGTGCTG GGATTACAGG TGTGAGCCAC
CATGCCCTGGC CTGGGTTTTA TCTTAAGGTC TTTGTGTGTC TGTTCATCT GCATGAATAC ATTINCTTCA TTTACTTACG
TCTTAGCTTA AATGATACCT CCTTCTTCTT CTTACTGCCA TTATCTTCCC TTGTCCTCC ATACTCAGAT TTCATTGCA

SEQ ID NO:667: (Length of Sequence = 288 Nucleotides)

GGTGGCAGGC TGCTTGCAAT NCAAGCCAG GNGTTTCTG ATGGGTGAGG GTGGGGAGGC TGCACACCAC ACAAGGTCAC
CCTACTCTAC CTCTACCCA CCTACCACA GCCCTAGCT CACCACTCCC CCAGGGCATG GGACTCTTGA TAATTCCAAG
TCCATGAAAC CCTACAATTA TTGCAGTGG TATGANTCCT TCTATGAAAG TACTTCCCCT GAGTGTGCCA GCCCTCAGTT
TGAAGGTCCC TTAAGTCCCT CCCCAATTAA CTATAATGGG GATATTTT

SEQ ID NO:668: (Length of Sequence = 212 Nucleotides)

TCNTTTCINT TTCTTATCTA TCINCTTAC CATGTGCTT CGGGGCTGG AACATAGTAG ATGCTCAATA AATATTGATT
GAATGAATGA ATGAATAAAT CTNCTTACAC CTCTCATGCT TCAAACAGGG AAAGGCTAGA TTATTTAGAA GTCTTGTGCG
GGATAATAAT NAGCTCAGTG GAAGCCCTCT AGTTCCTACT CGAGTTTCTC CC

SEQ ID NO:669: (Length of Sequence = 281 Nucleotides)

ATCTTTTCAA CCTATCAAT AAGATGTTAT GAAAGATTGG TTCTCTGTG TACAAGTAGT ATAGAATCTT TTTTGATCTT
TGACTCTGTG CTGCCTATCT CATCAATGTT GTTGCTATTA ATATCTGTCC TTAAACACTG GATGTTGGGA TCTTAGTAAT
GTGCTGATA ATAGGATTTT CAGCAAACT TCCATATCCC TTGAAGATAT GGTAGTTTAT ATTACTATAT CGATAACAGT
TTTGCTGTG GAGATTTGAC TAGTTTTAGG TGTTTGAAG C

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SEQ ID NO:670: (Length of Sequence = 234 Nucleotides)

AATAAAGTTG GGATATTTGA TTGTTTCCTT TTCIGATCTT TATGCTGACT GCAGTATCAG ATACCATTTT ATTGTTTAAA
 AATCTTCCTT TTTTTTTTTT TTTTTTTTGG CATTITGCTC TTTTGTCATT GTTTCAAAGT CAAGTTGATG GCCNCAAAAT
 TCCAGAGGCT AAGCAATGCA GAAGTTTCAT CTACTGGCAG CTAGTTTTAT TTCTTAAAAA TACATTAAAT TAGG

SEQ ID NO:671: (Length of Sequence = 252 Nucleotides)

CCTGAAATGT AAATGTGTTT TAATATATTT AAGAGCACAC AGAAGTCTTG ATTTATAAAA AAATAAATAT ATAACATGAC
 AAATTTACTG ATGATCCTGG GGCTCTGAGG TCAAACTCTT TAAATGATCA GTGAAAACAT AAAACATCCA TGATCTGTTA
 ACACACACAG GGGCATATTC CAGTTGTAAA AAACAANTTC CTTGAAGGCT CAGNACGTAC AAAANTCAGT NTTTNTGGCA
 GAAAGCACAT CC

SEQ ID NO:672: (Length of Sequence = 366 Nucleotides)

CCATCCAACCT ACTTACTCAA TCCTCTTGAA ATCTGCCTTT TGTAATGTAA CTGATAGGCC AGCGTTTCTT TTCACTGTGG
 GAAATAAAGG CTACTTGGIT GCTTTAGGGA GGGCAACAAT GTCAGCTGCA TAAGCAGCAA GAATATTATA TTNATTACT
 AGTCCACCCT TAATAAAGAG AGAAACCTTA GGAAATGGAA AGAGGTGTCT GTTTTATATT TCCTTTGCTT TTCAACCATT
 GTTTAGACAC TCTCCCTTCT AGTGCCTTGA GAACCTTCAT GGAAACTCTG TTCAGGTTCT TGACTCTCAG CGACANATGT
 GGAGGTCTTT GTGGTCTTAG CTCTCTAGGC CTGAGAATCA CATACA

SEQ ID NO:673: (Length of Sequence = 349 Nucleotides)

CCTCCCATCT TGGCCTCCCA AAGTGTAGG ATTACAGGCG TGAGCANCCA CACCCTGCCT GGTGTGTAC TCTTTTAAAT
 ACTAAGTTTT TAATGTAAA TGCTGCTTTT AGATACACTG TAAAAATACA CCTATCAATG AGTTTTTTTA TAAAAACAT
 TGCAATTGTA CTAGNCTTTA AATACTAAGC AATAATTCAG GCTTCAATGT TGGTTTATAG TTTTCTCATT TCTTTCAATT
 AATACCTCTG TAAAATGAAG CAGTTACTTC CATTTTCCTG AGGTGAGATA AGTGCCCTGC ACAAATGTTA TAGGNCCAGT
 AAGTGAGGAC TGGAGCTCTG GATCCTAAT

SEQ ID NO:674: (Length of Sequence = 256 Nucleotides)

GCACTTTGGG AGGCCGAGGC AGTTGNTCA OCTGAGGTTA GGAGTTTGAG ACCAGCCTGG CCAACAGGGT GAAACCGTIN
 TTCTCTTAAA AATACAAAAN TTAGCCGGGC GTGGTNGTGC ATGCCCTGAG TCCCAGGTAC TCAGNGGCT GAGGCAGGAG
 AATCACTTGA ACCCGAGGTG GGGCAGNGG AGGTTGCAGT AAGCCAAGAT CGCGCCATTG CACTCTAGCC TAGGTGACAG
 AGTGAGACTC CATCTC

SEQ ID NO:675: (Length of Sequence = 292 Nucleotides)

GAAGTCATTT TAGACTCTCA ATTTTAAATT AATTTTGAAT CACTAATATT TTCACAGTTT ATTAATATAT TTANTTCCTA
 TTTAAATTTN AGATTATTTT TATTACCATG TACTGAATTT TTACATCCTG NTACCCCTTC CTCTCCATG TCAGTATCAT
 GTTCTCTAAT TATCTTGCCA AATTTTGAAA CTACACACAA AAAGCATACT TGCATTATTT ATAATANANT NGCATTCACT
 GGCTTTTTTAA AAAANTGTTT GATTCAAAAC TTAAACATAC TGATAAGTAA GA

SEQ ID NO:676: (Length of Sequence = 392 Nucleotides)

ATCAAAGATT GCAAACATTT ATTTTGATCC TGGACTACAG TGTGGGGATC ATTGCTATGT TGGCTTGCCT TTNCTATCCA
 AATCTGAACC CAAAGTGCAG CCTGGGTAG CCATGCAGGA AGATATGTGG GATGCTGACT GGGATTTGCA TCAAAGCCTG
 TTCAAGGGAT GGACAGGAAT AAAGGAAAAT NCAGGTCATA GATTGAGTGC TATATTTGAN GTAAATACAG ACCTTCAAAA

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AAATATAATA TCAAAAATCA CTGCTGAGCT CTNCTGGCCT TCCATACTTA GCTCACCOCG GCACCTTGAAA TTTCACCTTA
CTAATACAAA CTGCTCCTCA GGAAGGANGA GATTACTTTA GNAATCCTT GCAGGATGTT CCTGTCTATG GT

SEQ ID NO:677: (Length of Sequence = 333 Nucleotides)

CGCATGCTAA TTATAAGATA TACAGGAAGN GAAAAGTAGG AGTTAAGTTG GATGTTGTTA GAAGTTGGAT GTTAGTATTA
CCTTCAGGAA CAGATCCCCA TGGCATGTCA CAGGCCTTAA TTATATACCT GGCTTTCTTA TTGTCTCCAC TTATCATGA
GGACAAGGTC TTGGTTTCAT GGGAGGAACT TCTCCATTGA AATAAATGTC TGCCATGTCA GCACCGTTTG TNCCTCAGT
TTTAATATAA TGGACCATAT ATTAAACATN ATTAAACATA TTTTAAATN TGGTGTCACT AGGTAGATGC CCCAGNCATC
CTACTTCCCT CAC

SEQ ID NO:678: (Length of Sequence = 359 Nucleotides)

AAGGAGACAA AGAGTAGATA TGGTATCTTG GGGACAAATG GCACATGAAA GCAGATTGG TGCTTCTTTG GTAAATGGTT
TGATAACCAA TCCCTAGGAG ATAAAGTTAA TGTCCTTTT TTTTTTTTTT TTAANCGAAG GTCCCTTACT GGTCTGCTT
CCATGAGTAG CCGTGACCAG GGGAAAAGGG AGAGTTTTT TTTTTTTTTT TTGAGAAAG AGNCTCACTC TGTCGCCAG
GNTGGAGTNT AGTGGCATGA TCTGGCTCA NTCAGCCTC TGCTCCAG GTTCAAGCGA TTCTCTTGCC TTAGCCTTNC
GAGTNGCTGG AATTTGAGGC GCATGCACCA TGCTGGCT

SEQ ID NO:679: (Length of Sequence = 339 Nucleotides)

GGTGGCACAT GACTATAGTC CCAGCTACTT GGGAGGATGA GGTGAGAGN TCACTTGAGC TGGGGAAGTA GAGGTTGCAG
TGAGCTGAGA TCTCACTACT GTACTCCAGC CTGGATGACA GAGTGAAACC CTGTCTCAA AATAAATAA GANAGAAAGA
NTATAAATAT TTGTATCAA TTTCAGCTT TTACAGTCAA TGAACCTAAG TCTTAATTTT GGTACAGAA TTAAATATTA
ATATTAACAA TCAAGGCAAT GTAAAAGTAA AGTACAGTTG ACTGAAGCTG GGACACAGAC GGNAAAGAGA GTGAATGAAA
AGAAGGATAC TAATATTCT

SEQ ID NO:680: (Length of Sequence = 356 Nucleotides)

CTGTATAATC AGGTATATCA CAAAGTCTAT AGTCTCTGAG ACATGGGTGA GTAGGTGTGA GCACCTGGTG AAACAGGTCA
GAGGAAAAGC AAGTTGGCCT TGGAGTCAGC TGTCAGAGA TAGATCCGTG ATGGTATCGA GATCACTACA GACAGGTGGT
GGTCACCTAG TGTGTCCGC TGAATTTGG AGGGTTAAT TTTAATCCA AATACCATAG AAATGGATAT GAAAAGATGG
GTGACACATG CTGCAGTTG GGAAGTGGGG ATGACCAGGT GCTTAGTTGC ATGGGAGAGG CCACAAGTGC TTGGCAATGT
TTTCGTGAC TTAGCCTCTC ATCTCAGGAA TTAGCT

SEQ ID NO:681: (Length of Sequence = 345 Nucleotides)

GGCCTGGTGT TTGGCTGAGG TGCACTAGGA CCCTGGCOG TGGTGTACTG GATGGCATCA GTTCTGATGG GTCANATGTC
CATCTAACA GGTGGTGCT GGAGAGGGAG CAGTTGTAA ATATCTTTAC TATCTCCCT NCTCCGACA CCTAGATGCC
CAATATACA GCACGTAGTA TCGAGGCAGG CCCTTTTGAT TGACATCAGA ATCAGGTTTG CAATGGAATA GGAGCTTTCC
TTCTCTCTGT CACTTTAGCC CCAGGCTCCA CCTCANAGTC TGGATGCTC ATACCTATGG CAGGTGACCT TGTGTAACAG
NTGGGGTTA ATGCCATTCT GTCCT

SEQ ID NO:682: (Length of Sequence = 302 Nucleotides)

CTCAGACATA TCTTTTTTTC TCCTAGCATG ATGCCACCC CAAGGTACTT ACACGTCCTC AACACACCT TCCGACAGC
TTGTTGGTAT CTGTGTGGC TATTCTGGTG CACGAATAA TTCCATCTT TTGAGATAAT GGGGGGAGC CTAGTAGGCT

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CTGGTTCCTT CTGGTCTGAA ATTAGAGTAG ACTCGTTCTG AGTACTTGGC AAATGACTAT TTGATTCTCT GATTCCCTGG
NCTCCATGCT CACCAGATGC ATAGCAGGGA TCTCTCCTAG NCACTCACAT CCAATTTTCA GG

SEQ ID NO:683: (Length of Sequence = 329 Nucleotides)

GATTTTAAAT AGTTAAAACA TTTTITAA TCCATAAGTA ATTCTTACTC TACTCATTTA TACACACATA TACTCACATG
TACACAGACA TACCTACACA CACACTTATA AATACATGTA TACACAGAAT ATAGTAAGGT CTTTATCCC TTTTCAATGA
AATAAATATT GTATTCTATA TTTAGNATAA ATAATGTTGA AAAAGTGATT TTGGAGAAAG GTTGAAATGA TTGAGTCTTA
AGTGIGTCAA TGTATAATCT ACCCCTTCT AAACATCGTG TTTTAAGTAG TCATCTTACT TCAGAAATTA GAGGCTCAAT
GTGTTTAGG

SEQ ID NO:684: (Length of Sequence = 281 Nucleotides)

AACATGGCTG ANTTGAGATT AACTGCCAT GATACATTGN CTGACAGCAC TTCACATTTT CCCTGAGTTG GGGACAGAAA
TCACACTGCC CAAATACATT ATCTGATGGC TCTCATGTT TCCAAAAGT TAGGAAAGGA GGTTCATAT ACATACATGC
ACAAGTGCAT ACACACACAC ACACATACAC ACACACACAG TGCTAGATGA GATGTTGANT GNCATAAGGA AATGAAAGTN
CCATCTCTCT NTTCCTACC CCCTGCATCT GTCCCTTAT A

SEQ ID NO:685: (Length of Sequence = 324 Nucleotides)

ATTTTAAATA ATTTTAACT AGCTACAAA TGTCAATCAC TTCACAACT GACAGAGGAG ACAGGAGGAA TTTAATATTA
CATGCTATAA TGATATTTAT CTCACAGTTT ATATTTCATT CATTATATTT ATTTTITTA AAGGTTTCTT TATCAGCTAC
TAAACATCTC AGCAATTTGG TGIGCATAGC TCTAGATTAA GCAACAAAGN ATTGTACTGA TAACAAACCA CAGGGGAAAT
GGTGGTTAGT AAGAGTCAGC CTTATAAAAT TTACATCCAC ACTGTTTCA CAGCAAGNTT GCTCTCTCCA AAACGGTGGN
CATC

SEQ ID NO:686: (Length of Sequence = 380 Nucleotides)

CGAGGAGGAG GAGGAGAAAA TTCCCCAGA TTGGGCGAGG CCCGACCCC ACATTCCGTC CTGTTTTGAG AGGAGGAGGG
AAGAGAAATA AACGTGGCAG CGCATAGAAG GCCAGCAGGG AGACTGCTTT CCAGACACCT CCGGCCCCA CAGCCGTTCA
CCCCCGTTT TTTAGTCTT GGAAGAGGAA TTGGGCTCTG TTTTCTTTT GGGCTCTGTG CAACTNCAGC TACAGTGGAA
AAAAGCAAAC TGCTCTTGAT CCCAGGCCCT GCCTAAGCCT CAGCAGAACT TTAAGCCTA AACTTNAAGA GCCTCACCAG
GACGAGCAGG CATNCCTTAA CCTTAAAGCA ATCCAGTTTC ACGGCCTGGT TCAGTGAAT

SEQ ID NO:687: (Length of Sequence = 305 Nucleotides)

GACACTTCCC CTCTTTTATG GAAGCATAGT AAGATTTTTC CTTTATGGCG ATCATGATGG AGAAGTATAT GCTACAGGAG
GNGAGGTTCA AATTGCAATG GAACCTCAGG CACTATATGA TGAAGTAAGA NCINTGCCAA TTGCAAAGCT GGATAGGACA
GTTGCTGAGA AAGCTGTTAA AAAATATGTA GAAGATGAAA TGGCAAGGCT CCCTGATAGA TTGTCTAGTAA CTTGGCCTGA
AGGAGATGAA TTATTGCCCTA ATGAGATTAG GCCTGCTGGA ACCCCTATTG GTGCGTTAAG AATTG

SEQ ID NO:688: (Length of Sequence = 390 Nucleotides)

GAAGTCATAA GGCCTAAATA TTAATCCAGT CTGTGACAAC GACAAGGTGA ATACAAGCCA GTCTCTACTT CTCTGGGCCT
CTGTTTTCTG CACTTTATAT AAAGATTGGG CAAGATGGTC TAACITAAAT TTTATGATTC ACTAAGTTGA TTTTGTATGG
GGCAGATTTT NCTTCGATGA AATATTAAACA AATAAGNCAC TCAAATAAAT CAGCAATGGG GTGCAGATGA GGACTACCGT
TTCTACAGCA AAATATGGGT GAACTCAGTA AGTGTAGGNA CACAGAAGTT AATGCTGACC TCTTGATAG CATGTATGGG
ATATTAAATC ATTTCTGCC TTCCATTCA GGGGTGAGGG AGGAACAGCT GTTCTGAAC TCTTTTAAGG

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SEQ ID NO:689: (Length of Sequence = 315 Nucleotides)

GATTTAAGTG TTAGCATTTC TAACTTGAG ACTCTAACAG TAAAAATAAA GTAATCTGAA ACCTGTTTCC ATGGGTAAAA
 CACTCTGCCT GGTATTCTTG TACACAAAAT TTAATAATA TGTAATATC ATAAAATGAA AATATCACTC CCTCAATT
 CTTGGCCTT CACAAATTCA ATGTGACTAT GATCCTTTTC AATAATACTT TCAATGACAT TGTGCTTCTT TAGAAAAATC
 ACTTAAGTTG TAGCATAAA TAGTTAACAT TAGTCCTTTT ATTGCTATGG TATATGCTAA TTTTTTTAAA AGGGG

SEQ ID NO:690: (Length of Sequence = 291 Nucleotides)

TTAAATACT CCATATATTT NAGAAGCAAT TGAAAATGCA TCCATGTATG TNATTGAGC GTTACTAGAA ATTTATTTAT
 ACAAATCCAT ATTAATGTGC TAATAAGTGA CAAATATATA TATAGTCATG CACTGAATAA TGATGTTTTG GTCAACGATG
 AACTGCACAT ACAATGGTGG CCCATAAGA TTAAATAGA NCCAAAATTT CCTATGGCCT AGTGATGCTG TAGCCATCAT
 AATGTGGTAG TGCAACCCAT TACCTTTTCT ATGTTTAAAT ATACAAATAC T

SEQ ID NO:691: (Length of Sequence = 451 Nucleotides)

TTGAGCATCC GGAATATGGA GAAGTAATC AGCTACAGG TGACCAACGC AAGAACATAT GCCAGTNCCT CGTAGAGATT
 GGACTGGCTA AGGACGATCA GCTGAAGGTT CATGGGTTTT AAGTGCTTGT GGCTCACTGA AGCTTAAGTG AGGATTTCTT
 TGCAATGAGT AGAATTTCCC TTCTCTCCCT TGTACAGGT TTAAAAACCT CACAGCTTGT ATAATGTAAC CATTGGGGT
 CCGCTTTTAA CTGGACTAG TGTAACTCCT TCATGCAATA AACTGAAAAG AGCCATGCTG TCTAGTCTG AAGTCCCTCA
 TTTAAACAGA GGTCAAGCAA TAGGCGCCTG GCAGTGTCAA CCTGAAACC AAGCAATACC GTCATGTTT AGCCAAGCCC
 AGAGNCCTAA GGTTTACAAA CAACTATGG NCCGAACCT CCTCAAGTTC T

SEQ ID NO:692: (Length of Sequence = 363 Nucleotides)

GATTTTNTGA TTATTGATAT TAGAAATGTT TAAATTAAG ATATTAACAT TTCATGAAGC TGAGTGGTGA GCACACCAGT
 TTTATATTCT CTCTATATAA CTTGTGTAT ATTGAAATG TTTCTCTATA AAAAGTATTT AAGCAAGTTT AGGAAAGAAT
 ATTGATAAAT GAAATCTAGA GACCATCAA AGCCAATTC ACCATCACA AGTATAATTG TGTTCAAAT ATAATTGAAA
 TTGTGTGACT GTTGCATATT CTCTTTTTTG TTGTGTATA TGAAAGCATC TTAAACAGTT GCCTTTCAAA GCTGTTATCT
 TTGATANPAA CATACATTAA CCTAACATTG TGGACTTCTG TTA

SEQ ID NO:693: (Length of Sequence = 269 Nucleotides)

TTAAGGGTCC CAAGACTGCT CTAACAACAA CACCCATTTC CATAAATATG GNTCAATAAA CACTTATTCA TTCTTTATAA
 TTAGACTCTA TTGTTAGAAT TGTTTAGGT TTATAGAAA ATGAGCAGA TAGTACAGAA GATTGCCATA TACCCCTCAC
 CCACAGAAAT TCACAATTTA CCTGCGATT AAAGTCTAAT GTTAATATGA TATATTAGT ACAAGTAGTG GGATTATATT
 GATACATTAT TATTAATTAA AATCCNCAA

SEQ ID NO:694: (Length of Sequence = 330 Nucleotides)

GGCATAGTCA CTTCAGACA TGGTGCCTC TCCATGTGGA GTAGGTCAA GTCTCGTCC TCCCTGGCCA GGTGGAAGCT
 CCAGAGGGAC ATGTTTCAGC TTAGTACAAG GTGGCTGACA CTACTCCTCT GTAGGAAGAG GCTGGCTGGA GTGAGGGCG
 CCCACTCAG CCTGTACCCA TCAAGAAGTA TTCAGAAAGG ATGTCTCTGG CATCCACAAG ACTACTGGGC GAACCACACT
 GCAAAAATGA AAAGTAGCGT ACACAATTTA AATTGGTCTT AAACAAGCAA ATAATCCAGC CATTGGTGAC TCTGGGAATC
 TAGAGTGCAA

SEQ ID NO:695: (Length of Sequence = 344 Nucleotides)

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CACTGTGACG GATGAGTGGG TATTTCTTTG TACCTGAGC TCITTCATCC TACCTTGGTG GTCAAATGTG AGAGCAAGTG
 CTTTGGGGCT CAGAGGGCAT CACTCCAAGC ATTCTGCATG GAGTCTGTTG TGGTGAATGT NCTTGCTGGC ATCTTGATCA
 AGGACTTTGT CATCATTAGC CATCAAATGC TTGTGGTCC TTCTCAACCC TGTAAATGTTG ATACTTAAAA AACTGGAAAC
 ATCTGACAG AACAGTCGA GAAAGTGGT GTGTGAGCTC TGGTTATCGC ATTACAGTTA AAGTTGGCAG ATAGGTTCTG
 TATTCAGTGC CCCATCAAAA ACAG

SEQ ID NO:696: (Length of Sequence = 324 Nucleotides)

CTTGAACGTG GCAGATAAGC ATTTTGATAT GCTGCTGGAT TCAGTTTGGC AGTATTTTAT TGAGCATTTC ACATCGATG
 TCATCAGGGA TATTGGCCTG AAATTTTGTG GTTGTGTTG TATCTCTGCT AGGTTTGGT ATCAGGATGA TGCTGGCCTC
 ATATAATGAC TTAGGGAGGA GTCCCTCTTT TNCTATTGTT TGGAAATAGT TCAGAAGGAA TGTTACCAGC TCTTCTTTGT
 ACCTCTGGTA GAATTTGGCT GTGAATCCAA TAGACACAAT AAAAAAATGA TAAATGGGAT ATCACCCTG ACCTCAGAGG
 AAAT

SEQ ID NO:697: (Length of Sequence = 341 Nucleotides)

AAITTAATCAA TCAGCCATTT TGGTGGCCGA AATTTATAAG GCAAGTAATA CTTTGTAGTT CTTTGATAGA CACCATGATC
 AGAAACATAG TCTCTTTCTT AAAGGGAAAA TAGGAAGTCT TCTGAGTCAT AACAGATGCA TGCATAAATT TCTCTGAGTC
 TTCATAAGAA ACACAAGCAA GATTTCACAG AGGCAGTGGG ATTTGAACTG AGTCTTGAGA AATAAGCAAT ATCTGAACAT
 GTAGAATGCA AAATAAGGA TAAGCAAGTG CTAATGCCCA GAGGGTAAT ACATATTAA TANCCANTAA CCAATGCTA
 CTTGTGTTTC TTACTAGTA A

SEQ ID NO:698: (Length of Sequence = 317 Nucleotides)

GCAAACCAGG AGAAGCAGAA GAGCAGGGTA AACCTGGGT ATAATTTGTC TAGACCCCCA TGTCTCCTTT AGTCTGAGTT
 CTGACATAAT TAACGTCTA TGAGATGTAC TGGGCTTTT CTCTATGCTT TTTGATGCCA CCTCACTAAT GTAAACAAAA
 CATTCAATTT TTCATCTAT TTTTCTTAC AGCTGCTTAG CACAGTCCTT ATGAAAAAAT GAAGCCTGA AAATGGTATA
 TCCTCTCGAC AAAGCTAAGC CTGACAAGTT GGCTGCATTA CCTAGGAATT AGAGAAGAGC AAGGGCAGAT GGTGGG

SEQ ID NO:699: (Length of Sequence = 385 Nucleotides)

ACCAGGAGAT GGAGTGCTC TAGACTGTGA TGCTGGGAAA GGATTGTGGG CTAGAAAAAG GGCTCCCTAG GGCCGGCATA
 TGGGCCACTG GGTGAAGAG GGGCTCTGAG ACCCTCACCC TGGAGCAGGT CATCACCCAC ACCGAAGAAT GAAGCGTGAA
 TTCGGTCACG CTTAAAAATG TGAATTGTTG GCAAAAGCCC AAGTTAATGA AATAGCATGG AAAATGGATG TGATGAGATT
 TTTGAATTGT AATTAGATTA ACATTGTAC TAGTTATCAG TCTGATATAT CTTATAAATC AAACGTTGGG TTGATTTATC
 TTTTATCACT TCTAGGGNCT TACTCCTAAC AGTAACTCAC AAACCCAGCC CCAAATCAGA GGCTT

SEQ ID NO:700: (Length of Sequence = 315 Nucleotides)

ATCAGTTGGA TTTGCAGAGG ATTGGAAGGC AGCACCAGGC AGGCTCAGAC TCACTGCTGA CAGGAATGGC TTTCTTTAGG
 ATGAAAGAGT TGTTTTTTGA GGACAGCATT GATGATGCCA AGTACTGTGG GCGGCTCTAT GGCTTAGGCA CAGGAGTGGC
 CCANAAGCAG AATGAGGATG TGGACTCTNC CCANGAGAAG ATGAGCATCC TGGCGNTTAT CANCAACATG CAGCAGTGAT
 GGGCCAGGC TCTTCAGNT GGGCCTGATC CCNAGTGGT GCTTACTNIG CTGACTGTGT ACTTATCTTC CCCAA

SEQ ID NO:701: (Length of Sequence = 387 Nucleotides)

GGCAGGAGAA TCGCTTGGG CCGGAGGCA GAGGTTGCG TGAGCCAAGA TGTGCCACT GCACTCCATC CTGGGCAACA
 GAGCGAGAGT CTGTCTCAA AATAAAAAAT AAAAAAATAA GGTAGGTCTT TTCATCATG TGTTTTCTAG CATGTAGCAC

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TGTAACCTCC ACCTACTAGT AACTGAAAAC ACGCATGTGG GAACATTGCA CAGATGGATA GATGCAGAGA TGAAAGAAGG
 AAAGCTAAAA TATTTNCCAC GTGAAAACCA TGCATCCTGT TCAGAAACTA ATTCTGCCCTT CAGCCCTTCC AGGAGCATGG
 GAGGGGTGTC GTCTGNCNC TTTTGTGGAT GAGGGGGACC ACATGGTATT TCTACTGAAA GAGTTTT

SEQ ID NO:702: (Length of Sequence = 397 Nucleotides)

CATCAAAAA AAAAGGAGCT AACTAGATGC TGTCATAAG AGACTCACIT TAGATCTAGA GACACAGGIT CAATGTAAAG
 GGATGGAAAA ACATATTCCC TGTGGAAATC CCAATGAGGG TGCTATGGTT TTGCATGTGG TTTGTCCCCA CCAAACTCA
 TGTTTAAATT TAATTGCCAA TGTAAATGGTT CTGGGAGCCT GGGCCTTAAG AGATAATTAA GATGGATTAA TGCTTTTCCC
 ATGAGACTGG GTTAGTCGAG ACTCTTGCAA AAGCATGTTG TCGTTAAGTG GGTCATCCCTC CTTGTCTCTG TCCTTTTAT
 ATACACTTCT TTCCCTTCT ACTTTTCCAC CCTATTATGG AAGCACCGTG AAGCCCTCAC CAGATGCCAC CACCATG

SEQ ID NO:703: (Length of Sequence = 374 Nucleotides)

ATACAGGGTT AGACCAAGA GGAATTCAA TGAGGCCTGA TGGATTTATG GACCAGAACA ACAGAGGGGT CITGAAGGAA
 GGAAGATATA GAAAAGGCAA GGTGTGGTT AGAGAGGAAA TCCAGAGIT TTAGCTCTGG GAGGTGTAAT AATTTCAAAA
 GAATAAGTCC AGGCCTGGCC ATGACATGGG AAGCTGAATC TCTGCAATGT TTTTCAAAT AGCATAATGG ATATCTTTGA
 CTCTACCTT GAAGCCAGAA AATATTAAAC TTGCATGTAT AATCATACAA ATGTATGCAT ACCTATTTAT ACATACATTT
 ACATATTTTA TACTTATGCT TTCATATATT CTACGTGAGG TACAATATAC TCCA

SEQ ID NO:704: (Length of Sequence = 422 Nucleotides)

GGCAATGACA TAGAGATGAT AAGAAACAAC ATGGTTTGGT AGAGGGAACA TTTGATTTAG ACTCTGCCCA TTTTLAGCTG
 TATGACTTAC ATAAGTCATT TTGTGTCCAA GCCTCATTTT CTCCCATATG AAAAGTGAAG GGGTTGGAIT AAATGACTAA
 AATCCCTTTC CAGCCCTATG AGCCCAATGT ATTATGATCT CTGCTTTGTT TCCTTCTTAA GAGGCTTCTT ACTATAAAAT
 GTGACCTATT TACATTTTAA GTTGAAGTAG CCCACAATAA TGAATAATCA NTTTAGATTT TCCTCATCTC CTTTGGGAGA
 AATTAAATTC AAGCCTCTAT TCATTTGATG TTTTACAACA AGCTTCAAAG TTGGGCCATG GTTCATTAC AGTTTGTATA
 TTTTGAGGAC ACCAATAAAA AG

SEQ ID NO:705: (Length of Sequence = 229 Nucleotides)

GCTGCGGNTC ATAACAGCTG GACTCACGCC GNTGACAGAG TCTTGATCAG TCCTCTGGGA ACTAGACGTC AGGCTCACAC
 CACTGTCTGC GCTGATCTGG GNCITTTTCT CCTCTGTCTC ACCAAGGTCA AAGACAGGTT TGATTACTTC AGGCCTCTGT
 TTTTCCAAAG NTTTTTGCTT TNNCACTTCC TGGTGCTTGT TCCACAATTC AATAGATGCT ATAAAATTT

SEQ ID NO:706: (Length of Sequence = 255 Nucleotides)

GAGGACTGIN TACCTCAGTC CTCTCTCTAA ACTCCTCAGC CTCCAACAG GGGCCTCCTC ACCTGGGTTT TGAGTGTGTA
 CCCTTTTLAG AGAGTGAGAT GCCACCCGGG CAGCACTGCT TAAAGCTGGC CAGCACGAGT GACTAAGGGG AGAGAGCATG
 ACATAGACCT GGGTGGCAAC GGGGACCTCT GGAAGCAGGT GGGAGTAACA NAGGAGAGGG CAGTNGAGGG TAGAGGAAAA
 GGACCTCCAG AGGIT

SEQ ID NO:707: (Length of Sequence = 324 Nucleotides)

CCGNGAGTGT GCCACTGCAC TCCACCTTGG TGACAGAGTG AGACTCCGTC TCCAAAAACA AAAAAACAA AGTTGAACCTA
 TAACTGAAT TCCTCCCAAG GTTAGTTCAG CCTATGCCCT GGAATGAACA AGGACAGCTT GGAGGTTAGA AGCAAGATGG
 NGTCAGGCCA GATCTCTTTC ACTGTTAACA TTTTCTCAGT TATAATTTTT GCAATGTGG TTTCACTCCC TGCATCCATA

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ATACCTAGAA ATTTTGATAA ATACTTGTTA AACAAACAAA AATAAAACAT CCACAGCAAG GANTCGACTA TAAGGCGTTG
GTGG

SEQ ID NO:708: (Length of Sequence = 325 Nucleotides)

GGGCTCATAC ACAGTTTTAT TTCTGTGA TTTTACAGAC ACTCCATCCT GCAAGCCCAT TCCCTTGGAA AACCCAGAAA
GAGTGGGCAC AGTGCTCCCT AGAGGAATAG AGGGGACAAG ATGGCTGCCA GGGAGAGGGC AGTTGAGGCA CTTAGGGATT
TACTCCGGCC CTGATGGAAG ATCTGGTGCC CAGGGTAGGG GGAGAGGGCC TGGGCTGGGC TGGAGCCCTC TAGGTATTTT
CCAGAAGCCC CTTCAGGAAC TGTCACCTGG ACTCCAGCAC CACCCCTCGT CATGTTGTCA CTTCCTGTGG TGGCGGGAGC
GCAGG

SEQ ID NO:709: (Length of Sequence = 264 Nucleotides)

GGGCCCCGTT GCATGAGGCA CTTTGTCAAA ATGAGCAGAT ACGTATGAGC ACTGAACTCT TGAGTGAATC AACCAGAACT
AAGACCCAGA TCCACGCACT CAGGAAGTTG CTCTGAATTT CAGTTTGACA ACAGAGAAGT AGAATATTTC TAATTAGCTA
ATATATATAC ACATTTTTTA ATCATCCAAA ATTACAGGCA AATCACTTAA GGTCCCCAGC ACTTTACGNT GNAAGGTCAG
AGAGANCCCC ACAAAAAAGG TGTT

SEQ ID NO:710: (Length of Sequence = 366 Nucleotides)

ATTTTTATTA TATACATATC AGTACTCACA ATACGTTGCT TATTTAAGAT GGCTGTTTAT AAGTATAAAG CAGTTTGAGC
AACACTGATT GTGCATTATT GTACTTCAGA TGAAAAATCC TTACATGCGG AATCAATGTC TTTTAAAATT TCAGATAAAG
AATTINCATT TGAGNGACA TACAATTGTA AGTGCTCATT TTTTGTCAAT TTTAAGACAC CATTATGTGT AAGANGGATT
AATTTTNCCT TAAAATTACA AACACCCCTCC ATGCTTGAC ATTCAATGG AAAGGGCAGC ATAACCATTT AATCATCCAA
ATGCATATCA GAGCAAATC CTAGGGCCTT TAGGTGTGAG GGTTGA

SEQ ID NO:711: (Length of Sequence = 216 Nucleotides)

GAAAAGCAGA AAAAAGTGGG GAAGATTTTC TATCTGAAC TTGTGAGCTG GAGAATTACC ATTAGTAGCC CACTAATAGG
TTATGGCCGA TGAGTCCCTT CATAACACAC TGAGAGCCAC TTTTGACACT CCCAGAAAAG GCAGGTAAAC AAAACCCCTT
GATGGAAGCT TAGACCCTCA TTGCCAGTG TACCAAGCC TCTTTGAACC TTGCCT

SEQ ID NO:712: (Length of Sequence = 276 Nucleotides)

ATTTTTTTCC CATAGCACGT ATCACTCTCT CATGTGTAC CTGCTACACT AGAATTATGA CCCCTAAGAG GGAAGAGACT
ATGTCAGTAT CATTGATTCT NATTAACACC ATTATTAGA ACCATGCTTG GCTTAAAGTA GTAGCTGCTC AGTAAATATT
TATCTATGTG TGAATTTTTA AGTNCCTTCT TTATATTGAN TTAAAATTAG TCTCTGTGT GCAGCAGTCT GGGTTTGTCT
TATGTTGAAA TACTTATGTA GACTTCTACA TACATT

SEQ ID NO:713: (Length of Sequence = 354 Nucleotides)

AAACITTACA ACCTGCACAT TTGTTATGCA TACTAAATGG TGTGTTAAAA TTAGGGTTTC TTGCCTCTC TACTACTACAC
TAATCTGCCT AAAGGTGGTT GTTTCATATT TATAATGCTA ATTATCATAC CTACCTACTT TAAATTTTAG GTAGAAAATT
ATCTGATTTA AATACAAACA TATTTTCTC ACATTGAGTA ATATGCATAA TGTAGTTCCA AATGTATTTC ATTACTATAG
TCACAATATC CAACTAAAAA TTACGCTATC TAGAATTGTA CCANCCAAA TCTGTATTG GCAGATCTTG ACAGGCTGGA
CCTGCAAGNA TGTGGCTTGG AATTTTAAAC CCAT

SEQ ID NO:714: (Length of Sequence = 349 Nucleotides)

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CAGTAATTCT CTTCATCCT TCCCAAAAT CAGTGTCTAG GGACTAGTTG ATCTGGATGA GTTATACATG ATATTTGACT
 TTNCATAAGT AGTGGGAAGGT TTCACTAAGT AAAGATCTGA GTTCTCTGGT ATCTGACGTT TGTATACAGA TGGTGTCCAT
 TTGCTCAACC AGACAGGAGT TAACTTGTAT TAGAATTGTT TTTCNTAAAG TNATGTTACC TGAGAAATTA AGGACTGCAC
 CTGGTTTAAAT GTTGCTTCAC TTATCCCACC CTACAGAGAC CAGCAAGGTT CTGCCAGGCC TCGAGCATCC AAGCATGATT
 TTCTGTGAC AAAATCTAAA AATCCAACC

SEQ ID NO:715: (Length of Sequence = 302 Nucleotides)

ATATTTGAAA AGATCTTCAC CAAAGATATA TGGATAGTAA GTAAATATAT GAAAGGTTTT CACTGTTAAT GATTAAAGGA
 AATGCAATCT TGTACATGAA TGTTTATAAC AGCATCATTC ATAAGAGCCA AAAGGTAGAA ACAATCCAAA TGTTTCATCA
 CTGATGAATG ANTACACAAA ACATAGTATT ATCTATATAA TGGAATATTA CTGGGCCATA AAAAGAAATG AACTGGGCCA
 GCGCAATGA CTACGCCCTG TAATCCCAGC ACTTTGGGAG GCINAGGTGG GCGGACTGCT TT

SEQ ID NO:716: (Length of Sequence = 314 Nucleotides)

GTATTTTITAG TAGAGACGGG GTTTCACCGT GTTAGCCAGG ATGGTCTTGA TCTCCCTACC TGTGATCCG CCCACCTCGG
 CCTCCCAAAG TGCTGGGATT ACAGGCGTGA GCACCTGCGC CCCACCCCAT TTGGGTGIGA TCTCAGTCA CTGCAACCTA
 CCGCTCCCAA GTTCAAGTGA TTCTCCTACC TCAGCCTNIT GAGTAGCTGG GATTACAGGG GTCTGCCACC ACGNCTGGCT
 GATTTTCTTA TTTTINAGTIG AACTGCAAT TCACCAGNT GGCCAGGCTG GTCTCGATCT CCTGACAAG AGGG

SEQ ID NO:717: (Length of Sequence = 279 Nucleotides)

ATAAAAATGC TACAGATTTT TGTATGTGA TTTTITATCA TGCAATTTCA CTGAATTGT TTTTCAGTTA TAACAGTTTT
 CTATGGAGT CTITGGTTTT TNCCAAATAC AAGATCATAT CATCTGCAAT CAAGGATAAT TTGACTCCT CCTTCCAAT
 TTAGATGCC ATTATTTTTC CTCTGTCTG ATTGCTCTAG CTAGGATTTT CAGTACTATG TTGAATAACA ATGGTGAAAG
 TGGGTATCCT TGTATATTC CAGGGTCTG GAGGAAAGG

SEQ ID NO:718: (Length of Sequence = 161 Nucleotides)

AAGAAAAAA CATAAATAAT ATTAGAAATG GAAAGTTAT AAATCACTA CAGCAAGNT TTAATACTAT TATGAAACAA
 ACCAAGTAGA AAGTAGATCT GCCAAACAA AAAGGAAAGA NACTGTTTCT TTCATAAATA ANTGACAATG GGGGAAAAAG
 A

SEQ ID NO:719: (Length of Sequence = 220 Nucleotides)

GACAGAAATT TTTTITTTTT TTTTITTTGA GACAGAACT CTCTCTGTCA CCCAGGCTAG AGTGCAATGG CGCAATCTCG
 GCTCACTTCA ACCTCTGCTG TCACAAATAA ACATCAGTAA GAGCCAGCAG TTGCTCTAGG ATCTCAGTCA GCAAGCTTGG
 GGGCTGTGAG GAAACCAGCA GTCACCTGTT TCTCCCTCTC CCAGCCAGG GCTGACCCCT

SEQ ID NO:720: (Length of Sequence = 347 Nucleotides)

AGAAATGAAA GCTACATTAA CGAAAAAGGA ACTTAGGAAT GAGGTCAATTA AATATACTA ACTACATTTT AAATACGGAT
 ATCATATATT TCTGATTAG TATCAGGTAA ATATCTAGAC TCCTATCCTG AATCCGGTC TCAGATAAAA AGGTACAGAGA
 CAATTACAAG GAAGATGCTT CATATTATCA GGTCAGTATA TACCTAATTA TGTGCACTGG AGAGTAAITTT ATCTTCATT
 ATCATTTGTA AACATTGTTT TTTACATTT TTGTAGTTGT CCATAATGTA AGCTGTGGG TTGATTATT GTTTTCCACA
 CTGGATCCAG CTGGTTTAAA CCTATTT

SEQ ID NO:721: (Length of Sequence = 313 Nucleotides)

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AAAAGATTG AACAGATAAT TCATCCAAAA AAAATATGGG TGGGAAAAAA AGCACATGAA AAGATGCTCA ATATCATTAG
 ACATTAAGAA AATATAAATT AAAACCACAA TGCAATATCA CCTCGTATCT ATTAGAATGT CTAATATTAG CAAGACTGGC
 CATATAGAGT GTTGGTGAGG ATGTGAACAA CTGAACTCA TACACAGTGC AGGTGGAAAT GTAAATGATA CAATTTTTTT
 GGAAAAGAGT TGGCTGTTTC TTCAAAAGTT AAACATTACA TCTGCCATAT GNTCCAGACA TTCCACTCCT AAG

SEQ ID NO:722: (Length of Sequence = 266 Nucleotides)

ATCGTGCCAC TGCACTGCAG CCTGGGCGAC AGAGGAAGAC GCCATCTCAA AAACAGAAAA AAAAAAAAAA AAAAAAAAAA
 AGTGCAGCTC TCTAATTGGG CTCTTTTACT TACTATTAT ATAATAAAG CCACGTTCTT AGGCTGTATA ATGGGGTTAA
 TCATAGTAAG TACCTGTGAA AGTTACTGTG ATAACCAAT AAGTGANCAT AAGTAAAGCA TTTTACATGT GTGCAGCTTA
 ATAAGTTGGA GTTGIGACTA TTATTT

SEQ ID NO:723: (Length of Sequence = 370 Nucleotides)

ATTATTCATG AAATAATCCA TGTAACATCA CTAGCACTG AGAGTTAACA AAGGCAAATG TTACCTGAAT AGGAGGAAC
 AGAGGAAGAA CAACGAGGTC TCTTTTATCT ATGCTAAGCT TTGTCTGAAT AGGAGAGAAA TGTGTGGCCT GTTGGTGAAT
 TTATGCTTT GTGGTAGTAA TGGATTYYCC TAAAGCTGTT TCCTCTGAT CATTATAAT CCTGTACAG CAAAGGACTA
 TTGTCTTTG GTATAGTAA ATAACCTGT TGAAGCACC GCTTATCTTC AGACCACAGC GCATACITCT TACTGGAAAA
 TATAATGCAG GTGCCAACAC CCAAAGGGCA TGACCAGGGG TTCCCTTCC

SEQ ID NO:724: (Length of Sequence = 478 Nucleotides)

GGACACAAC GAAGTGTGGA AGAAATGAAA GGGCGAAGT GTGTTTGTAG AAGGCTCTGG AAGAAAAGCC CAACAACCCA
 GAATTCCTCT CTGGACTGGC AATTGCGATG TACCATCTGG ATAATCACC AGAGAAACAG TTCTCTACTG ATGTTTGTAA
 GCAGGCCATT GAGCTGAGTC CTGATAACCA ATAGCTCAAG GTTCTCTTGG GCCTGAACT GCAGAAGATG AATAAAGAAG
 CTGAAGGAGA GCAGTTTGT GAAGAAGCT TGGAAAAGTC TCCTTGCCAA ACAGATGTCC TCCGAGTGC AGCCAAATTT
 TACAGAAGAA AAGGTGACCT AGACAAAGCT ATTGAAGTGT TTCAACGGGG TGTGGGAAT CCACACAAA CCAATGGCTA
 CCTCTATCAC CAGATTGGGG TGCTGCTACA AGGCAAAAGT AAGGCCAAT GCAGANTACA GGGGGATCTG AAGCTAGT

SEQ ID NO:725: (Length of Sequence = 356 Nucleotides)

GACAGAGGAG AATAAATGGA ATAACTTAGT TTTGTGAAAG ACTCAGATG TCACITGGTT TCTGGACAG GTTCGAGACC
 TGGCTGTGGC TTGCTGTGGC CTTGAGAGCC ATCCACAGC AGCAATGCTG TTGGACCCIT TGGCTGGGAC CTTCAGGACC
 CCTGCAACA GCACTGTGTN CCTAACCTGC TGGCATGATG CCCCTTTNTT GACAGGGCTG CATAAAGGC CAGCGACAAG
 TGGCAGGCAG TGACGCCAGC CTGGATTGTC TGAGGGCACA CGCCATGCTT CTTGCAGTGC CAGTGTCTT CTNGGTCCAC
 TTTGCAGCAA GGATAGATGT GGTCTAGAT CCAAGA

SEQ ID NO:726: (Length of Sequence = 387 Nucleotides)

GTGGTAGAGT AAATCCTATT ATATCGAGAT ATTGGTCAGG CAAGAATTTT NCTTTTAAAA TAATTATTG TAAATGAACC
 ATAAAATTTT NACCTTTGTG CCATCTTCTA GGCTATAAAA TAGTCTTATA AAGAATCAGA TTGTTAAGAG TATATGAAAT
 GTGGATATGG ATGTGGAAGA TCCATAACGA GGATGATGAA AGCACATTAA GAAGCTTTCT GATGGGTACA AAAAATAGAA
 TGAAGAAGAT CTAGTATTG AGAGCACAA AGGGTGACTA TAGTCAACAA TAATTATTG TGCATTTTCA CATAACTAAA
 AAGTATAATT GGGATTGTAA CAGAAAGGAT AACTGCTTTG AGGTGATGGG ATACCCCATTTT TACCCC

SEQ ID NO:727: (Length of Sequence = 348 Nucleotides)

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CCTTTAAGC AGCGGATCCC CTGGTCCCCA CCCCCAACTT TATATTCATT AGGCCTGAGG TGGGGCCTGG GAATCTGGAT
 TTATAATTG CTCCCTATG ATTCCAATGC CAGTGGGTTT TAGACCACAT TTGAGAAAC AGTGCTGTAA ACTGTTTTC
 ATTTGCAGTG AAGGAAAATG TAGGGTTTGT GTCTGAAAC TATGCAGAGA AATTGAATAG TATTINAGTC TAATCTTGCT
 TTAAATAAC ACGGAAATTT TGAAAGTCGG CTTTAGGGAG TTCCAGAAC TGTCCATGAA CAGCAACAAG AAAGATCCCN
 GTGTGAAAT GAACACTGGT TGGTAAAA

SEQ ID NO:728: (Length of Sequence = 305 Nucleotides)

TGTTTATTA TAATCTTATA CAGTCTACAT AAATTGAAC TGTATTTAT TTGGGTTTCTAG TTATAACATA GCATAATAAA
 AATCAAGCA CTGGTCTCTT GAAATAAAGC AGGCAATCAC CATTCAATAA ACACACTTGA TTTATTTTGT ATAAAAGGGT
 TAAGTTTACA ACTAACTTTT TATAAANGT TTAGCATGAA TAAGTACATC ATTACACTTT TGAATGCAGA AATAGACATC
 TCTGCCACTA TACAAGAAAA CTCTAATTAA AGAGTTCACA AGGTTTCACT CAAATAGATA TATTT

SEQ ID NO:729: (Length of Sequence = 383 Nucleotides)

CAGACATTT ATTTTCTAT TTTCCATGAA GAAGGAGAGG GACAATTTTA GATTCACCAG TGTGCAGGAC AAATTCCTAC
 TTAACCTATA GAGGAGCAAA CTTTCTTCAA ACACATTACC AATACAATTG TAATACTAAG AATCAATACC ATAGTTCTCG
 ATGTAGCATG ACTACAAATT GTCACAGTAG ATTTTGGATG ACTTTACCAT AGCCACACTT AATGAATTAT TATTINATTT
 NCTATTTGTA CTTTAATAAA ACTATATTTT AAACCTTAAA ATTGTTCATTT AAATTACTAA AGAAAATGAG TAGTTCCCAT
 AATGATCCA TAATGTTANG AATTGCTTTT AGCAAATGAG GACTATATTC ACCTANGCTT TTG

SEQ ID NO:730: (Length of Sequence = 311 Nucleotides)

CTCTTTTATT CCTTTAAGT CTTAACAAA GAAAGAGTCT CCAAAGTTTA AAAAACCTTT GAAAAATATA CAGCTTGATA
 TTATTTACAT AAAATATGAN TCCAGGTTCC AATATCAAAC AAACATTGCT ATGTCAGAAA CACAGTGGAA GGCAGGAACG
 TAACTCACTG CCTTTAGAT GCAAAGACTA ATAGACACGT TCTCCNATCT CGACTATCTT NGTTACCTGT TATCCTCANA
 ACATAATTA TTANGCACC TGNGAGGTTG GATGACTACC GAAAATGGNC TTCATACCTT CTGTATGATT A

SEQ ID NO:731: (Length of Sequence = 349 Nucleotides)

AGGGAAATGC ACAGAATTCT ACTAAATAA CAGCAAAATA AGAGAGCATG AATTACATAT CAAATTATTT AAAGCAAATA
 ATTTACAAA TTTCTGGAAC AGACAGAAAG CAGATGAGTC TACCAAGAAG GATAATAAAC AATGACACCA GAGAAAAACC
 ACAACCTGAA AACTTAAGAA AACTGCCATA GAGGTGTGAG CCAGAGCTCC CAGGAGCCCT ACAGTGCTCC AAGCTCAGAA
 CTGGCAGTA TCAAAGTCAA GAATGCTATG GGGTAGCTAG GCCTCTTGAC TTCTCTTCT CTCTCCATTC ATAGACAAGA
 AAGCAATCT ACCTTTAGGT GGCCTAGAA

SEQ ID NO:732: (Length of Sequence = 370 Nucleotides)

AAATTGTGTC CTCTAGCCTA GAAGCAATCA AACTCCAAC TGTGCTGCTG ACTGANCTAC GCATGGATAC GCCATTCTTC
 TGAGGCCCC TAGACCAACC CCAGGAGGAG CCTGACTTC TGTTCCTCAT TTATGCCCC TTTTCAAGCA GGAAGTAGCC
 AGAAAGAGTC ATTGCCCAA ACCACCTAAC AGCAGTTGGG GTGACGCTC CACAGGGGGG AAATGTTATA GGAGTTATTA
 AGAAATATC TTAGGCAGAT AGAGAGCAA AGGGTCTCT GGGAAATTT TGTTCCTTTT AAAGTAGCTG CAGAAATGTT
 TCTGTCTAG CAGGAAAAGC CCCAGCTCTT TAAAGCTGGG GCCAGCAATC

SEQ ID NO:733: (Length of Sequence = 357 Nucleotides)

TTTTTGGTG TGTAGAGACA AGGTCTTGCT ATGTTACTAA GGCTAGAGAT CCTTTTAAAA TGTCTTTCTG CTAGGTTGTT
 GGGCCATCAC CTCTCCTTGT TTTCTTCTC CTCTCCAGC TTCTCTGGAT TCCATCTGTT TCTTATACTG AGAAGTTTGG

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TACCTAGCTA GCCCTCAACC TCCTTGTTTT ATGAATGGAA AGGCTGGGAC CCAGACAGGG CAAGTGACTC ACCCAGTGTG
ACAGAGCTGT TAAATGGCAG AGCATGATTG AATCGGGCCA TGACTACTTT CCTACATGAC ATATTGAAAC CAGTTTGAGG
CCTCGGTTTC CTCTCTNGCA AAACAGAGAT ACTAATG

SEQ ID NO:734: (Length of Sequence = 374 Nucleotides)

TGGTGAAAGA AGAGAAGGAA ACCTTGGTCT GCATGGCACT TGGTACTTTT GTATTGCCTC CATGCCCTCC ACTGCAGCTC
CTGCCCTGCT CTGTGTGCAT CCTTCATGAG ACTCAAGACA GATAACCTCT CCTTGCCCTT TCATGTCCCA GCCCTGGNTC
TTGGACTCAA CCATCCATTG CATCCCCATG GAGGATTCTG CCAGTCTCTA GGAATCAGGA GCAACCCAAG GATGTCCAG
GGTCACAGGA AGACTTGTG AGGGGACCCA CAGGGGTGCC CACAAATTAT CAGTCCATGG AGAAAAGTAG AGAGGGAGGC
TCAAGGACCT CAGCACGTAA GGGACATTTT GAATTCTACA AGTCACGGTG GGAT

SEQ ID NO:735: (Length of Sequence = 348 Nucleotides)

CCCAGCGCT GGAGAGCCAG CCTTCAGGG TGGGCTGGG GAGCCAAACT GCGTTCCTGG TGCAGGGCTT CGGGTCTCCC
TAACAGACCT TATACGCTGA CCGGCGGCCG CCATGGCAGT GTCTCTTTGC TCAGACATCC AGCGACGACC ACATTCTGCC
AACAGCGGTC GCTCCACCAA TCCTGGGAGA AGCGAATCGT TTTCTCCGCG TGCCCTGTCA GCGCTCATG GTGCCAGAG
AGGAATTTTA GTGCAGCAT TCCGCTGTC ACGCCACCGA AATTGCCAGG NCACTCCAAG TCAGAAGGAC CACCAGGAAA
AGTCAGGAAG AGAACCACCC ATCAAGGT

SEQ ID NO:736: (Length of Sequence = Nucleotides)

ACACTCCTGA CCTCAGGCAA TCCTCCACC TCAGCTCCC AAGGTGCTGG GATTACAGGC ATGAGCCACT GCGCCAGCC
TACACACT CTTAATAGAA GAAATGAATA ATCAAAAAT ATTATGTG GAAAAATGT TGAATCTTA TTTTAAAAAT
AATTAACGNT TTCAATAGGC ATGTTGAACC TTTTTCGGC TACTGTTTTC AGCAATTGCA GTTGAATGAG TACAAAATGC
ACCACAGAAT AGAGACTGCT ATCTACCCAA ATATTGCTGG TGTGTAATC CATGGTAGGG AATTTCATG TATTGTTACA
ACNGCTATA AATACATCCC AAAATATGTG TAGAGCTAAA ATAGATG

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SEQ ID NO:737: (Length of Sequence = 243 Nucleotides)

TTAATCATTC AAACCTTCA TTATACAACG AGTGCATACA CCACTGGGGG AGTNTCTGAC TGATGCGTGG GAGGGCGGGC
GGGGATGTCT NCAGCTATGA GTAGGGAGGA GCGGGGAAG CCTTGGGTGC TTCTCTCTCT GACTGACCG CTGTGTGTTT
GTCCCCAGAG GAAGAGCGGN NGGCAGTCAG CCCCCGGGGG GATGGCAGAN TGGAGAGACG GACCTGCAGA AGTGGTGGCC
AAG

SEQ ID NO:738: (Length of Sequence = 358 Nucleotides)

CGAGTCAGAG CTGGACAGCG GCGATGCCAT CTTTACATGG CCAGACCGAG AGAAGGGCAA ACTCTGCAT GGTGAGAATG
GCTCTGTACC CAACGGGCAG ACCCTCTNA AGGCCAGGAG CCGCGGGGAG GAGATCTGT AGCCACCTGG TCTGTCTCCT
CAGGGCAGGG CCCAGCACAC TNCCTGCCA GTCTCTTAC CTCCCGAGTN TGCGGGCAGC TNCCTGCCA GCATCTGCTG
GTCAATTTGCG CTGACAGTC CCAACCAGAA CCCCTNGGGA CTTGAATCCA GAGANGTCTT CCAGGNAACC CCTCAACGAA
GCTGTGAAAT GAAGAGGTTT CCTCTTTAAA ACTGGTTT

SEQ ID NO:739: (Length of Sequence = 400 Nucleotides)

CATTCTGGC CAGGCACGGT GGCTCATGCC TGTAATCCCA GCACTTTGGG AGGCCGAGGC AGGCGGATCA CGAGGTCAGG
AGATGGTCTA GACCATCCTG GCTAACACAG TGAAACCTG TCCTACTAA AAATACAAA AATTAGCTGG GCGTGGTGGC

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GCGTTAGTAT TTCCTTAAAT AACAGGTAC AATAGAAAGA TACTGCCTGG AAGTTATCCT TTTCATTTTG GTTCATTTTC
 AGTTTTTGT TATGATTTAC ATAGCTGTTT AATTCATTTG CTTATAGTAC AATCCTGCCA TAAAGTATTA AAGCACAGA
 TACCTGTTAT TCCCTTCAAC ATCTGCATTT TTCAAGNTT TTATACTCTA TATCCACAGT ATGTCAGCAG TTCTTGACTG

SEQ ID NO:740: (Length of Sequence = 374 Nucleotides)

ATCGTCAGAT TCACCAAGGT TGAAATGAAA TAAAAAATGG TAAGGGCAGC CAGACAGAAA GGTCAGGTTA CCCACAAGG
 GAAGCCCATC AGACTAACAG CAGCTCTCTC GGCAGAAACC CTACAAGCCA GAAGAGAGTG GGAGCCAATA TTCAACATTC
 TTAAAGAAAA GANTTTTCAA CCCAGANTTT CATATTCAGC CAACTAAGC TTCATAAGTG AAGGAGANAT AAAATCCTTT
 ACAGNCAAGC AAATGCTGAG GGATTCTGTC ACTNCCAGAC CTGCCTTACA AGAGGTCCTG AAAGGANGCA CTAAACATGG
 AAAGGGNATA ACTGGTACCA GNCAGTCAA AAACATACCA AAATTGTAAA GGA

SEQ ID NO:741: (Length of Sequence = 290 Nucleotides)

AAITATTICA TAATAATGTA ATAAACATTC ATGAACATAC CCTATCAAGC AAGAGCTAGA ACCTTGGCAA TCATTTCTTT
 GACTCCTCCA GTTTGTGGCT ATCATGATAT TCAGCCCCAA GTTCATCAIT TCTGTTTTIN CTTCIATACA GGTTCCTTAT
 ATGTATTTCT AAAAATCAIT GGTTATTICA TCTTTGTAAA AAGTCATTGT NCTATTTTCC CCACTAGTTC TACATTGCAT
 TCATATTGTT GTGGGTGTG GTAATTCATT NATTTTGACT GCTGTATAAT

SEQ ID NO:742: (Length of Sequence = 274 Nucleotides)

TTAAGAGGAA AAGTATCTTT AGGAATTINT TTCTATAGAG TTCTTCATTA ACATTTATAC GAGTTTTTTG CTGAGTCAGA
 TGGACAGTTG GGTCTGATG CTTTINCCIT CCGCCTGCC AGGCTGGCCC AGGCAGTCT CCCACCANTC TATGAGCGIN
 TCCGGGGCCG NGGATCTGGG CAGCATCCAT GTGCGCGGG CCATCCCCAG CGGNACCACA AGGTNGCAGC GTTGNTCCAC
 GAAANACCGN CTTCCGCTC TGCTTCCCA AAG

SEQ ID NO:743: (Length of Sequence = 398 Nucleotides)

TTGCTTTGCA GTTATCTGGA ACTCCTGIG CTCCTTCAGG AGCTCCTGGG TGIGCTGTAT ACTGGAGCCC GTGGAGGTGT
 GTGTGGAAAG GTAGAACTG CCATTTGTCAT GGATCCATTC CAAAGCCTGC TTGGCACTCC TCTCAAAGAC CAGTACTGC
 TGACACTGGT CCAGCGTCT CTTCCTCATG GTCCAGTAAT GCAATACCCT GTTCTCCCGT TGGAAGAGTT CATTCAGAT
 ATTTTCACT TGCTGTTCAG GAGCTTTGAT GTGCGTCACC ATTCTGGCA TGTTCAGCT TGTCTGTG CAGGTATTTT
 AGGAAGACGT CTGCATTNCT CCGAGCAAGN GGTCAGGCC TTCAGGAATG CCTCCTTNC TNCAGGGTGC GGTTTTCA

SEQ ID NO:744: (Length of Sequence = 359 Nucleotides)

TGCGACAGAG TCTTGCACTG TCACCTGGGC TGGAGTGCAG TGGTGCAATC TCAGCTCACT GCAACCTCTG CCTTCCGGGT
 TCAAGCCATT CTCCTGCCTC AGCCTCCCAG GTAGCTGGGA TTACAGGCAC CTGCCACCAT GCCCAGCTAA CTTTTTGTAT
 TGTTTTTTTT AGTAGAGATG GGGTTTCACT ATGTTGGCCA GGCTGGTCTC AAATCCTGA CCTCGTGATC TGTGCGCTTN
 GGCCCCCAA AGTTCTGGGA GTACAGGCGT GAACCAACGN GNCCGCTGG GGTGCTTAT TTAAATCCCC TAGAAAGAGG
 GATTCTNCAG CTACACCACA CCGTTAATT NGAAGGACC

SEQ ID NO:745: (Length of Sequence = 361 Nucleotides)

CCCTTAATTA AAAGTTTAT TTTTAAAAA CGTAACAGAC CACTCTAAGA AACTTTGGCA TTCAAAGCAG TAGTTACTGT
 TATTTGCTAA CTCTGAAAAA AAAATTTTNC CCTCACAAC CAACCGCAA ACTCTGCCA CTTCTAGCT TGGTGGCTGC

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CAGCGTGCAC TGCAGGGAAA CGGTGGGTGG AGGGATAGGA AGGCCCTCAC GCTCCCAACC CACGGAGAAA NTGCAGATGG
 TGACAAGCTG CATCTGGACT CCAGGNTGTA TCTGACAAAG AGGGAGATGG TINTOCTCQNT CCCCTNCACC AGCTCCACTT
 TTNCTGCTGA AGAAACAGAG ATGTGGAGGC AGGCGTGACC T

SEQ ID NO:746: (Length of Sequence = 285 Nucleotides)

GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AACTAAGAA TAGTAACATA
 GCTTTCAGCA TCCTGTGCCT GAACATCACA CATCTACAAG TCTTTCAAGN CTTAATGCAA CAGGAATNTG TCTGGAGACC
 AGCAAGANCA TCAATAGAGA GCACTGNTCC CAAGCAAAAG CCACTAACCT TTTAGATGAG AAGTCCACAC AACGGATTNT
 TAGGGGAGGA TTTGGGNGAA GCAGCCCAT TGTCTAATAC ATTGG

SEQ ID NO:747: (Length of Sequence = 302 Nucleotides)

CAATGCAGTT TTAGAGTGCT CATCTTTTCA ACTTATTGTA CAAATATTTA CTGAATGTCT GCCATAAGGC AGTAAAGGCA
 CAGAATGACT CAAAGCCTTT TTNCCCTTAT GGGGTGTAAT TNCTAGTGGT GGAGACAGAC AATGAGCAAG TAAACAATCA
 ATCGGCTAAT GATAACTACT GTGAAGAAAA TAAAGCAGCN CAAGGGAATA GAGTATGCCA TCATTAAGAC TGGTTAGGGA
 AAGCTTCTTT GAAGACATGG CAGCTATTGA AAACCTGACT GATACAAAGA AGCAAGTCAT GT

SEQ ID NO:748: (Length of Sequence = 346 Nucleotides)

GAGACCAGCC TGGGCAACAC ACTGAAACCC TCCTCTCTAA AAAGAAGAAA AAAATAAGAG TTTTGAGTTT TTCCAAAGAA
 GAATGCTCAG TACGTTTGIN ACTATCAGA AAGAAGAATC TGGAGGTCTT GACGTGTAAA CAGAGTTGTG GGTACCATCT
 CACCAGAATT GCTGCCCTGA AGCCAAAGGA CTGAGCTGCT CAGATCTGGA AGTAATCTGA GCCCCCATTT CCAAGAAGAG
 AATTGCAGAA TTTTATAGGA AGAAGGGACC TGATCCCTGT CAATGGAAGC ATTTTAAAT TTTTAACTGA AGTTCAGGA
 GCATACAAAA AGCCAGGNAA TTTACC

SEQ ID NO:749: (Length of Sequence = 325 Nucleotides)

CTAAACTTTA TTTTCAAAAG CTTAAGGCC AAATACAAAC TGAGGTCTTC CTTCTTAACA AATTAATACT AAAATGAAAC
 AGCTTTTNTT GTGTCCTTAA GACAAAATAA GGAAGGAAAA CGTAGCTGCA GTTGTCCACG ATGGATATTG GTTCTTTAAA
 ATATATCTGA AAGTAGTAGT CAGAATGANT TATGGTTTGA AAACAGAGGN ATCTTCTGGT TGCAGGTGCA AAGTGAATTT
 NTTTTATCTT GTCTCAGTCT CTTGATAGC CACTTCATC TGCTACTACT CAACTTTCTC CTAAAAATAC TTCATCTATT
 TTCAG

SEQ ID NO:750: (Length of Sequence = 341 Nucleotides)

TGTATTTTNA GTAGAGAAGG GGTTTGCCA AGTTGNCAG GCTGGTCTCG AACTCCTGAT CTCAGGAGAT CGGCCTGCCT
 CGGCCTCCCA AAATGCTGGG ATTATAGGCG TGACACTGTC TCTGGTTTAA GAGAACCATG GGCTGAGATA TTNAGGAATT
 CTCCAGGCCA CGAATCTTGG GGCATGCAGC CTCTTCGTA CCCACAGCA TCTNGGGGAG CTGGTGTGCT GATGGGGTCA
 GCTCTCCAG CTGCCTGGAA AATTCTCAGA CACTCCCTAA GAGGACATCT CCACCCCTNC CACTCTNACG TCACTGCTTT
 CTAACATTGC TCATTTGTTT G

SEQ ID NO:751: (Length of Sequence = 377 Nucleotides)

TTTTTTGAGA CGGAGCTTNG CTCTGTCACC CAGGCTGGAG TGAGTAAGC CCATCTCTGC TCACTGCAAG CTTACACCAT
 TCTCCTGCCT CAGCTTCCCA AGTAGCTGGG ACCACAGATG CCGCCACCA TGCCCGGCTA ATTTTTTGTG TGTGTGTTTT
 TAGTAGAGAT GGGGTTTCAC CATGTTAGCC AGGATGGTCT GGCCTCCAG CTTCTCTGTA GTCCCTTCAT AAACATTGTG

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TTATCTGTGA AAATAATTTG TTCCATTTCT AATTAGTACA TAATGAGAGA GGCAGTGTGA TGGTTTGTGC CTAAGNCCTT
TCTTGCCAAG ACTTTCAAAG CCAAAACTT CANCAGTTTT CCTAGATGAC TAGACAG

SEQ ID NO:752: (Length of Sequence = 359 Nucleotides)

AAGTCAGGCG TTCTGGGGC AGCTGTCTG TGAAGTTGGT GGGACGTGCT ACCCTGGGCC AGCTCCAGGT GAGCNTGGCT
TCGGTGGTCC CCGTGGGCTC CTNAGTGGCG AGGGTGAGGC CTGGCACTGG GCCTCTAACT GGCCCCGTGG CCGTGCAGTC
TTTNGTGTG GTGTCCCGCT TGCCCTTTNT CCGGCTGTTC CAAGCGCTGC TAAGCCTCAT CGNCCCNAG TACTTTNACA
ANCTGCGGCC CTGNTGGAA GCAGGTGAGT GGCCATCANT CGTGGTCATC TTGNTCAT NATCCAGCT TTGGCCCCG
GTTGGGCTCG GCAAGCAGCT TCTCCTTGGG GAGGGTCTT

SEQ ID NO:753: (Length of Sequence = Nucleotides)

AGCTTCAACT TGGAAAGAAG GATGATGAG TTTTGGGCCC TCCGGCCATC AATNACCGAC AGCNTTTTGA CCTTGGGGGA
AGCCAGGTAT ATGINTTCAG TGGAGCCAG CTCCTTCTGG TGCTCTGGT AGGCTGAAAA CATCTTTTCA AAATCCTCTA
GGTCCAGGNT CCGAAATACC TGCTATCAT CAATCTCAT CCATACGTTG CCAGGGACAC GCTCCTCAT CAGCTTCACC
CAGTTGAAGG ACTTCAGTGG GTGAGAAGGC TGGGGGACAC GCTTTTCTCT GAGTGGGACG

SEQ ID NO:754: (Length of Sequence = 342 Nucleotides)

CTGTGAAGT GCAGGTTTGA TCCAGCCAGT ATAGAAGTAG CTCTGTAGGG GTGAGGAGGA CTGNTCTGT TATCATCCTT
GATTGINTTC CTTCAGGAG CATTCAGCTG TAAGTACATC AGAATGACAA ATTGATGAAC TGCAACAGTA TCTTTTGTG
AATGTTCCAC ATAATGCAA TGCCATAGT TGTGTGAATA TTATGTTTGA ATACAGTCT GATATCTTGG AAAACCATAA
CTGCTCTTA ATTTAACATA GNGTAATACA TAGTNTCTGA TTTTTTTAA AGTGAGCTNT AATGGGNAAG TATTTTINAT
ATGCTTTAGC TATAGCTAAA GG

SEQ ID NO:755: (Length of Sequence = 321 Nucleotides)

CATTGCCATC TTCTCAGTCC TTCTCCCTT CTTCCTCAAGT AGTTTACGGC CCTAGGGCGA AGGTGGCTTT TATTTCTCT
CTTGGGGAAG GAGGGGGAGG GAGCTTTTCC AAGCACATCA ACCTAAGGAA GGGGTGGTTG CCCCCCAGC AGCGAGGGGC
TGGAAGTCT GATCATTCCG AAGGAAGGGT TCGTCTCTGT CCACTTCTG GCCCTTGGCT GCAAGGGTGT GCTTNGCAGG
GGTCACTCCC CTTGGGGGTG GCAGCTCTG CATCAGTNGA GGGCACAAGG AGGTATCTGC TGGTGTTCAC GAAGAGGAGG
G

SEQ ID NO:756: (Length of Sequence = 368 Nucleotides)

TGGCATGGTT GCATGTCCT GTAATCTCAG CTACTTGGAG GCTGAGGCAG GAGAATTGCT TGAACCTGGG AGGTGGAGTT
TGCACTGAGC CAAGATCGCA CCACTGCACT CTAGCCTGGG TGACCGAGCA AGATTCAATT TCAAAATAAA TAAATAATA
AATGAGAAAA AAATATAGAT ATAGTAAAGG GAACAATTAC ATTCTACAAT ATTTTAGCAG AAGTAAATAT GGTTTAATTC
AATGGAACA GCTCTGCTCT AINGAAAAAT CACAAATATT AAAAATAAAC AACTCTACA TTAAACCTCT GAGCACTAGA
NGCTTACCTA CTTATTCATA GGGCTCACAT ACTGTAAGGG GGTAAAT

SEQ ID NO:757: (Length of Sequence = 339 Nucleotides)

CTTCCACTGC CAGGTATTCG TCCGGGAAG CCCCCACCC CCTCGNTTTC CTCTCCGCT TTCCCTAAC CTTCTCGCGG
GGGCATCTAC GNTCTGCTCT CGNCTCTCT CTNCTGAAC TCCCTTGTG CTGCGCCGT GCGTCTCTGG TACTGCTGGT
ACTCGGACAC CAGGTCTTTC ATGTGCTCT CCGCTCGGT GAATCCATC TGTCCATGC CTTNNCCGT NTACCACTGC
AGGAAGGCCT TTGNTGGAA CATGGCCGTG AACTGCTCG AGATGCGCTT NAACAGNTCC TGGATGGCC GTGCTGTTTC
CGATGAAGGT GGCCGACAT

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SEQ ID NO:758: (Length of Sequence = 356 Nucleotides)

TTTTTTTGTA TTTCTTTTGT ATATGGGTTA AATGTTTCCG TTATATTTCC TAATTGGCTA TTGCTCGTAT AAATAGATGT
GGTTTtaggc ACATATTTTA TATCTGGCTC CTATACTAAA AATCTTTTAT CATTTCACAC AGTTTTCAGT TATGCTCTTG
GGTTTGAAGG TAGACAATAA TGTCATCTAC ACATAATGAT ACTINCTGTT TCNCTTTTTA AATGCTTATA GCTCTTTNAT
TTTTATTGCT TTGCTTGTGC TATAAATNCT AGAATGAAGT TAAATAATCA TAGCAGATAT CCTTTTCCT GATTTAATTA
TAATGCTCCT GAAATTTTAT TAAGTATGAT GACTGT

SEQ ID NO:759: (Length of Sequence = 333 Nucleotides)

GCCATGTGGG GGCAGGAGG CGGTGGGTC GGGCGGGGG GACGGTCAAA GACTTCATAA ATAAGAGGCG GGTCCCAGAC
CCNCAAATTT GTCAACATGT CTTAAATAGG TGCAATATTT AAATCTTATG TACAACAAGA ATCACTTTGC ATAGCAATGG
TGAGGACACA GGACGGGTGC AGTGATGTGA CTGGGTCTTC TTGTCCCAAG GCGGGGGGGC GAGTTCGCAG CTCAGCTCGG
AGCCTCTAGG AAGAAAGCAT CCTTCGTCCG GCCCGCAATN GTGGCATCGG AGTTGACTTT TCCCACACGA CGGCATCAAN
CACAAAGGCA AAG

SEQ ID NO:760: (Length of Sequence = 311 Nucleotides)

CGTCTCTCT GCCCAACCCG CCCCCACCA TTGCCGAGGA GGCTGAAGAT GGAGATGGGT CCGGCAGCAT CTNCGGTTCC
ACCGGAGACC GCTTGGTGGC ATCAGCTTGC CCGGCCCGGC CGCAGATATT CCGGCCTCGA GAACAGCTCA TGCTGAGAGC
CAACAGCCTG AAGAAAGCAA TTGTCAGAT CATAGAACAC ACAGAAAAG CTGTGATGA GCAGAAATGCC CAGACCCAGG
AGCAGGAGGG CTTCGTCTG GGGCTCTNTN AGTCAGAGGN GAAGATNGAC CACAGAGTTT GNCCACCACT T

SEQ ID NO:761: (Length of Sequence = 314 Nucleotides)

TTTTTTTCT TTTTTTTAAG AGACAGGGTC TCACTCTCTT TCCCAGGCTG GAGTGCAGTG GCAACGATCA TAGCTCACTG
CATCCTCGAA CTCTGGGCC CAAGGGATCC TCCCCTTTG GCCTCCCAAA GCACTGAGAT TGCAGGCGTG AGACACCTCA
CCTGGCTTGT CTGAGAACAT CTTTTAAAA AAATCCCTTC TCTTGGGTTT TCTGTACCC ATATGTCTAC TCAATTGTGT
TGCTCAGCT TTGTTGTGT AATGCAAAAG CAGCCATAGA CANTACATGC ATTGAATGAG TGTAGTGCAT TCCA

SEQ ID NO:762: (Length of Sequence = 319 Nucleotides)

ATAAAGGTAT ATAAAGTTG AAATTAAAAG ACACATATCA TGAAATACT AACAAAAGC TATAATAGCT ATATTAAATAT
CAGGTAAAAT AGACTTTAGG ACAAAGCAT TATTAAGGAA GGGAAAGTTG CTATAATAAT AAAAGGTGA GTTAATCAAA
AAGATATAAT AGTTTAAAC ATTATGCATA TAATTAAAT CCTCAAAAT AGACAAAGCA CATATTGATA CTTAAGGNAG
AAATTGATAA ATCCATCACC ACAGTGGGAA ATTAGGAAGT TTCTGTACAC CTCTTTCCT TGTGATAGG TCAAATGGA

SEQ ID NO:763: (Length of Sequence = 369 Nucleotides)

TOCAAATCC TGCCAGATAT AATCTAAAA ATCTGTTTGT TAATTTTATT ATTTTATTTT TGGATTTTAA AATGCTTGGG
AATTGGGAGA TATGCACAAT TGTCTTTGCT TTGTTACAAA AATTAAATGC GTATTTGGGT ACTTATAGGA CACTATTGT
AAAAACATTT ATTTCTTCAG ACATTGATGG TCTTGTCCCA GTTATTAACA ACATCTACAT GTTAAAGAA AAATTTCTTA
TCTACTTCTT ATTCATTTGA AAATTACCTT TCTATCTCC TACTCTGGAA GTCTTTATGN ATTCTGTCTT AATCAATAGT
ATCCCATGTC TTCTTCAAGA GGATGTCTGT CCAGTAGGAA TTTCTCCCA

SEQ ID NO:764: (Length of Sequence = 381 Nucleotides)

CGGGTAGCAG TTGCTGAGTG TCAGCTAGAC AGCAGCGACT AGGGCTCGGG CCGCGCGAG ATGCCTTTNT TCACCGCCAA
CCCTTCGAG CAAGACGTGG AAAAAGCCAC GAATGAGTAC AACACTACAG AAGATTGGAG TCTTATTATG GACATATGTG

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ACAAAGTTGG AAGTACTCCT AATGGAGCGA AAGATTGCCT AAAAGCCATA ATGAAAAGGG TAAATCATTA GGTTCACAT
 GTTGCTCTGC AAGCACTAAC TCTTCTTGGG GCTTGTGTGG CAAACTNTGG AAAGATATTT CATTTAGAAG TATGTTCCCG
 TGGATTTTNC AACAGAAGTA CGTGCTGTGA TTAAAAATAA GGGCACATCC TAAAGTATGT G

SEQ ID NO:765: (Length of Sequence = 329 Nucleotides)

TTGTCTGCTT GATGCAGGAG CTGAGGAGCT GCACAGAAGG TTAAAAGAGC TGTAACACAA ACAGGGCTGC AACATGCCCC
 TTGCTCCCCA CAGGGAGAGA AGAGCTCTGG CCTCGGAGA AGCCAGACC TGGGAGCTCC TTGAGCCCGG GCTGTGACTC
 CCTCTTTGGG GCCCTGGTTG GCGTCACTGC ATTGCGCAGT GCCACTGTG GAAGCTGCTT GTNATGCGCC TGGTCCAGGG
 GGAAGCTGTT TGTTGTGTGC CTGGTCCAGC CACCTCATGG AGAGCCTGTG CTGGCACCTG GGAGCTGCC AACCTGGGCA
 GCAAGCTTT

SEQ ID NO:766: (Length of Sequence = 321 Nucleotides)

GCAGTGGCAG GTAGATTTTA TTGCGCTGGG ACACACAGGG GATACCCCTCA CCCACGATGG GGTGGGGGGT GTGGTGTGTA
 AGATATAATC TNATGGTCAC TTGTGGTAGA ATCGGGGTT CTGGCTGINT TGGATGAAGG GGAGCCGAGG GCCAGGTTGG
 CTGGTAGCTG CAAACCGAC TTTCTGCTG GCTGCATCTG CACAGGGAGC TGGGGGGAAG CAAGGAGTCC AGGGGCTGGA
 TGCAGAGCTT GAGTCGGAGA AGCCAGTCTG CTGGTAGCA TGTCCTCTCT GCTTTTNCAG GGCAGGGCA CCACCAGGCT
 T

SEQ ID NO:767: (Length of Sequence = 313 Nucleotides)

ACCGCCCCCT TAGTTCCTA TTCTGTCCCC GGTACCCAGG GCATCATAGA CACTCAACAA CCATTCGTTG AATATGCAAT
 TGGATGAAAT GAATAACGA CCAGAGGAAT AATCCAGACA GAGCAGCAGT GGCCAAGGGA AGGGAGGATT GATTTATGGG
 AGAAATTAG GGGAAATGAA TCCATAGAAA GGGTTTGCTT AAGTNAAGT GATGACTINGA GCCAGAAGAC ACCCGGGGGA
 GAGGAATINT TTCATATGGT AGGAAAAGGG GAGGAGGGAG AGAGGTGGGG TGGTGGAGIN CAGCCTCGAG GCT

SEQ ID NO:768: (Length of Sequence = 372 Nucleotides)

TCTCTCTCT GCGTCTTAT ATTCTGCAG TCCTTAGTAA CCTGTGTC CCACCTCTTA CTAGGTCTC TCCTAACATG
 TATCTATGAC ACATGATCC CTACAGCTA TGATCTTCT TACTCTTTN CAGTAATTTA AATTTTATCA TTCTACTGCT
 TGTTCATAT ATCTCTCTAT GTAAATCTTG ACTCCATAT GAGGTTTTTA ACTTCGAAGG GGTGGAAGT TATCTGCTGC
 CTGTGTAACC CCCCCTCAT ACACAAGAGT ACATTTTAA CACATTACAC CTGAGTGATT GINGTAAAC ACAGATGCAA
 TCTTTCCACC ATCTCTAGG AATCTTCTG TGGGCTTCC ATTGGGTAC CC

SEQ ID NO:769: (Length of Sequence = 321 Nucleotides)

GCAGCCAGAG CTCCAAGGCT CCCCGGGGCG ACGTAGCGC CGAGGAGGCA GCAGGCGCTT CCCCCGGAA GGCCAACGGC
 ATGGAGAATG GCCACGTGAA AAGCAATGGA GACTTATCCC CCAAGGGTGA AGGGGAGTCG CCCCTGTGA ACGGAACAGA
 TGAGGCAGCC GGGGCCACTN GCGATGCCAT CGAGCCAGCA CCCCTAGCC AGGGTGCTGA GGCCAAGGGG GAGGTCCCCC
 CCAAGGAGAC CCCAAGAAG AAGAAGAAAT TTTTNTTCAA GAAGCCTTTC AAATTGAGCG GCCTGTCTT CAAGAGAAAT
 C

SEQ ID NO:770: (Length of Sequence = 364 Nucleotides)

TTAAATCAGG AAATGTGATG CCTCCATCTA TGGTTTTTGA AAGTCATCAG CCAGAGCTAA GGTAATGAGG ATTCCCTCCT
 TCATGTTTAT ATGCTTTTAC ACTGTGCACA ACTGTCCCTA AAAAAACAAA CCCCTGGCCA ATTCTCCAG GCTTATCGTC
 TCCCCGGTTT CAGTACATT TCAGCTTAGC ATTTTCAAAA TAACAATTTG TTCTTGGCAG CCTGTCTATA TATTNATTT

234

ACCTCTCTTG TTATCCCCAC TTTTCATGCT CTATGTCCCA TAGGCAATTT GACAAAGACT GCTTTGACAA AGGATTCCCTA
GACTTCTATC TCTACCTCTC ATCTGACTTG GGCGGAGGAT TAGG

SEQ ID NO:771: (Length of Sequence = 357 Nucleotides)

CAGCTCACTG CAACCTCCAC CTCACAGGTT CAAGTGATTG CTTCCTCAN CTTCCCAAGT AGCTGGGACT ACCGGTGCAC
ACCACCATGT CCAGCTAATT TTTGTATTTT TNATTAGAGA CAGGGTTTCA CTATATGTTG GCCAGGCTGG TCTCAAACCTC
CTGACCTCAA GTGATCCGCC CACCTCGGCG TCCCAAAATG CTGGGATTAC AGGTGTGAGC CACCATGCCC GGCTAAATT
ATAGCTATTT TAGAATGTTG AAAGTAGTAT TATGTGATTT CAGTTTGCCA TAAATTTTTC ATATGGTTAC TAATTATTTT
TNTTTTGTG GATATATCT: CTGGAAATCT ATTGAGG

SEQ ID NO:772: (Length of Sequence = 359 Nucleotides)

CCTCTCAGGA AAACACCTAG ACATTATGTA ATGTATTTGA AGATTAAATGT ACCCTTTAAC CAGCAGTTGT GTACCTAGGT
ACAAACTTTG CAAGCACACA CGCATGINTG TNCCAAAAG CACATACAAA AACACTCCTA ACAGCATTAT TTGTAATAAT
AAAATATAAG AAATTACCTA AATATCCATC GACTGCCATT GGTAGTATGG TTATACAATG GAATTCTACA CAGCAATGAA
AAGGAGCTAG AGCTACATGC AACACATGG ATACAACCTCA CAAACGTAAG ACTTAGTGGG AAAANGCTAG ACACAAAGTT
AACACCTTCT ATATGTGGGT TCCAGTTATA TAAAACCCA

SEQ ID NO:773: (Length of Sequence = 361 Nucleotides)

GAGCCTACGG CAGAAAAGA AACATCTTCC TATAAAACT AGACAGAATA ATTCTCAGAA TCTGCTTTGC GATGTGTGCG
TTCAACCCAC AGAGTAAAC TTINCTTTTG ATAGAGCAGT TTTGAAACAC TCTTTTGTGA GTATTTCAT GTGTATATT
AGAGCGCCTT GAAGCCTACG CTAGAAATGG AAATATCTCC CCATAAAACC AAGACAGAAG CAATCTCAGA AACTAATGTG
TGATGGCTGC ATTCCACACA CACGGTGGAC CATTTCTCTT GATAGAGCAG TTTTGAAACA CTCTTTCTGT AGAATCTGCA
AGTGGGATAA TTGGGACCTC CTAGAGGGCC TTCGTTGGAA C

SEQ ID NO:774: (Length of Sequence = 387 Nucleotides)

GTTTCGCTCT TGTGCCCAG GCTGGAGTGC AATGGCGCAA TCTCGACTCA CCACAACCTC CGCTCCCGAG GTTCAAGCAA
TTCTCTGCC TCAGCTCCC GAGTAGCTGG GATTACAGGC ATGCGCCACT ACCCCAGCTA ATTTTGTATT TTNAGTAGAG
ATGGGGTTTC TCCATGTTGG TCAGGCTGGT CTGAACTCC TGACCTCAGG TGATCCGCT GCCTCGGCCT CCCAAAGTGC
TGGGATTACA GGCATAAGCC ACTGCGCCA GCCAGAAGAT GCATGATTTC TTAGGATCAT ATGCTGTTTG TAGCCATAAG
GTAAATCATG TCTCTTCCA TCATGACTTT TGGGAACCTC CTGAATAATA AAAATGAGAG TTGAGAT

SEQ ID NO:775: (Length of Sequence = 401 Nucleotides)

GAATTTNICT TTCTGCATCG TTCTGTCATA AAAAGGGGTA CTACTATAGA ATAGAATGCA GGCTTAGGAC CCCCCTAAGC
TCACTGTTCA ACCCAGCCCA GCAAACCTGG CAGTTATAAA TTTTNCITGCA GGTCCCTGAA ACAACAACAA AAAACTGGAT
GAGGTTTCCC TCCCATCTTG TTTTATGTCC TTGGGAGCTT GACCTTATAA CCATACGGCG GTACTTTTNC TTGGTCTCTG
CCATCCAGGG AACCAGAATT TGGGGGGTTA TGTCATAGTT AGCTCTAAAA ATTATCTTGA GCAGTTAAAA GCCTTTGCAA
GCTTAAAATT GACTGCTGTA GGNICCTTCT GGGGAAGGAG CAATGGGAAA CCTTNCCTAA GCCTTAGCT CANCCAGCTG

A

SEQ ID NO:776: (Length of Sequence = 345 Nucleotides)

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AACACTGGGT AAGCACTTIG TATGINCTGG GCACTCTGCT AGAGATAATG TGTCGTGAAT TGGTGGGTC TTGGTCTCAC
 TGACTTCAAG AATGAAGCCG TGGACCCCTG CAGTGAGTGT NACAGCTCTT AAGGTGGCGC GTCTGGAGTC TGTCCTTCT
 NATGTTTACA TGTTTTCANA GTTCTINCT TCTGGTGGT TCGTGGGTCT CGCTGGCTCA GGTGTGAAGC TGCAACCTT
 TNCGGTGAAT GTTACAGCTC TTAAGGCGC GCGTCTGGAG TGTTCGTGNC CTCCCGGTGG GCTCGTGGTC TCGCTGGGCT
 CAGGAGTGAA GCTGCAGATC TTGCG

SEQ ID NO:777: (Length of Sequence = 229 Nucleotides)

ATTGGGGGAA CCCAAGCCCA NTAATGCTAT GGCTGTGCA GACTTGTAGA GGTACTGCCT TCATGGTCTT NGGTAAGATC
 TGGGAGAATT CCTGGGATTA CCAGGCAGAA ACTCTINATTC TCTTGCTTA CTCCCCCA AACAAATNAG TCTCTCTCTC
 TCTCTGCTT GAGCTGCTA GAGCTGAGGG AGGGGGTGAC ACAAGCACAG CTATGTCACC AGGAAGCCA

SEQ ID NO:778: (Length of Sequence = 361 Nucleotides)

CAGAACTCA GGAATAAAGC CATTAACCTT CAAAGAATAT GTTGTGTGT TCGATATTTT CCATTCTTAA TCCACATCCA
 CGTTGGTCAA GTAGAGCTTC CTACTCAGAA GCACAGCAGT TGCCATGGTG TTCTCTTCCA TCTGAAAGCA GCAATTTTCC
 GCAGCGTCCA TTTACAGAAT GTGCCATATT TACTCAGATT CTAATGTATA TTAATATGC TTTGGAAACT TAACAAGAAA
 CGTGCAGCN CTCAGTAAAG AAAAGTTGTA GAAACAAAA ACTGAACAGC AGGCTTCTAG TTTCTCTCTT CCAAAATGG
 CCTTAGTGGG ATTCAAAAAT GGAAGTGTG AATAAACTG C

SEQ ID NO:779: (Length of Sequence = 392 Nucleotides)

CCTAAGATGC CTGGCACAAT CAAAGACCTT TGGTGGCTTC CAGCATTTAT AAGGCAGAGT CCAAACACAC ACTTAAGAAT
 GACTTACTCC TCTGGCGGAC CCCACCATTC CCTCACCCCG CTTTGGCTCT GTCTCTCGT GGAGCTGCCC CTGCCCCTAA
 ACACTGCTTC CTCTCTACCA ACCCGGACCA TATTTCCCTT CCTCCCCCA CCAGGTCCAG CAGTACCCAC CAGGTTTGTG
 GACATCTCCC CAAGGAGCTC TCACGTATCA GAAGCAAGGA GTTAGCCTTC AGCCCCACCT CTGTGTCTTA GGTCTACAGT
 GAGTNTCCAG TGATGCTTCC TACCGACTGC TTGGGGGTGC ACAAGAGTNA GGCCAGCAAG ATNCCAGCGG AA

SEQ ID NO:780: (Length of Sequence = 453 Nucleotides)

CTCTCTATTT TCTCTTTTCC TTTTGACCTA CCATAGGAGA CAGATTGCTC ATCTCCAAAT TTCTCTGCTG TCTGCGGANT
 GCCTGGTTTT CAACCTTGGT TAGGGTTTGG CTTAGGAATA GCATAATAT CCTTTGTGAG AGGTAAACA CTTGAGTTAA
 ATTTTGGAGG CCAGGTGTGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GGGCCAAGG TGGGCAGATC ACGAGGTGAG
 GAGATCAAGA CCATCTTGC CAATATGGTG AAAACCCGTC TTTACTAAGA ATACAATAAT TAGCTGGATG TGGTGGCACA
 CGCTGTGGG TCCAGCTAC TTGGGAGGCT GAGGCGGGAG AATCGCTTGA GNTGGGGAA GTGGAGGTG CAGTINAGGT
 GAGATCGGC CACTGCATN CAGCCTGGGN TGAGAGAGCA AGACTTCCGT TTC

SEQ ID NO:781: (Length of Sequence = 306 Nucleotides)

AAGCTACTCG GGAGGCTGAG GTGGGAGAAT CGCTGAACC TGGGAGACGG AGGTTCAGA GAGCGAGAT TCGCCATCA
 CACTCCAGCC TGGGCGACAG AGTGAACTC CATCTCAAAA AAAAAAAAAA AGAACCACCA CTNTAACTGA GAAATAGATG
 NTCCCATTA CAGTTTAGAA AATGTATATA ACTCTAATCC ACAGAGGTTT ATACTTACAA GCACTCATG GTTCCCTTT
 TAAGGGCCAC ATGTGGAAAA TTAATCTGAA CAGTTAGTGC AAGGAGGAGT CATACCTCAG TGGAAA

SEQ ID NO:782: (Length of Sequence = 443 Nucleotides)

GTCTCGGGCT CCTGACCTCA GGTGATCTGC CTGCTCGGC CTCCCAAAGT GCTGGGACTA CAGGCATGAG CCACTGCACC
 TGGCCTAATT CTACATTTN ATCTACAGCA GACCTTTTAT CATAAAAGAG TTTCTATAAA ACATTTCTCA AAAGAAAATA

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TGTATTGACA TTCTATTTTC TTCTCTCTCC AGATACTATT TTTNGGATTT NAAACATACA CAATACTTAG GAGACTTGTG
 TTACTCAGAG TGGAAAATTT TNCCAGGGAC AAAGTCAACA CAANGAAACA AACAACAAAA AATAGCCAGA AAGAGAACAG
 TTAAGTGCAG CTCGGTGAGT CCCGGCAGTT CCTTCCCGGC ACTGGCTCGT CCCTGGGGTT CTCAAGGTTC CATGCGGCCA
 CAGCGTCCGT CCACCTGTTT CACGAGAGCC ACATGCTGGA ATT

SEQ ID NO:783: (Length of Sequence = 350 Nucleotides)

CATTCAGGCC GGGCACAGTG ACTCATGCTT GTAATCCAG CATGNITGNA GACATAGCAG TAGGGACTAT CGACAAAGAA
 ACACACAGAG GGAAAAAGAA TTCCACATTT GGGAGGCTGA CGCATGAGGT TCACCTGAGG TCAGAAGTTC AAGACAAGCC
 TGGGTAACAT GGTAAACCC CGTCTCCACT AAAAATACAA AANTTAGCTG GGCATGTGG CCTGGGGCTG CAGTCTCGAC
 TACTTGGGAG GCTGAGGCAT GAGAACCTCT TGAACCCGGG AGGTGGAGGT TGCAGTGAGC AGAGGTTCATG CTACTCTCAA
 GCCTGGGGCA ACAGAGCGAG ACCCTGTCTC

SEQ ID NO:784: (Length of Sequence = 265 Nucleotides)

ATAACTGAAA AATGGAAGAA AATATTGCA AATTACACAT GTGAAAAGCA GTTAATATCA AAAATATATA AGANACTCAA
 AGGACTATAC AACAAAAAAC AAATAACCAT GAAAAATAAG CAAAAGATAT ATATAANINA TTNCAAAGA AAGACATACA
 TATAGCTTGG CAGATAGATG AATATGGCTC AAAGTCAATT ATCATCANGG AAAGGCAAC CAAACAACCT CTAAGATATA
 AACTCACTCC TGTAAANTG TTAA

SEQ ID NO:785: (Length of Sequence = 363 Nucleotides)

GTAAAGNTTG AGAAATCGGA TGGTTCCTGT GTCTGTGTAG AAAGAAGTAG ACATGGGAGA CTTTTCATTT TGTNCTGTAC
 TAAGAAAAAT TCTTCGCCT TGGGATCCIG TTGATCTATG ACCTTACCCC CAATCCTGTG CTCTCTGAAA CATGTGCTGT
 GTCCACTCAG GGTAAATGG AAAAAAATA AGAAAAATGA AACCAGGAGT TGGCAATTAC TTTTTTTTTT TTTAAAGACA
 GAGTCTTGCT CTGTACCCCA GGCTGAAGTG CAGTGGTGAG ATCTTGGCTC ACTGCAACCT CCACCTCCCA AGCTCAAGTG
 AATCTCCAT GCCTCAGNCT TTCAGAGTNA CTGGGGATTA NAA

SEQ ID NO:786: (Length of Sequence = 291 Nucleotides)

AACAACAATC AGCCACAATG TGCTTTTAAG GATTTAAC TGATGTAAGA TAAATGTGAG TNITAAGAAT GGGATTTTTA
 GACTAGGCTG ACACAAGGGA TCTTCTTNA ATAAGNCTT TGAGCATTTG TTTTTTTGGA GCTCATCCTT AAGGGCTGGA
 CAGGAAGAAT CCTGTGTTAT GTGTGCATGT TGAGCAATGC AAAAAACACT CTGCCAAATC CTNGATACCA CATGGTCTNG
 AGAAATGCAT GAGTGATTTA ACGCACGGNT GGGTGTAGTC ATTATGTTCC T

SEQ ID NO:787: (Length of Sequence = 256 Nucleotides)

TATTTCTGTA TAATTTINAT TATGACCATA AAAATAACAA TGATGCAAT AACAATTAA TTGTACATTT TAAATAATT
 AAAGTATATA ATTACACTGN TTGTAATAAA AAGTATAAAT GTTAGAGGTG ATGGATACCT TATTTACCCT AATGTAATTA
 CTACACATTT TAGGCCTGAA TGAAAATATG CCATATAAGG CATAAATATA TACACATACT ATATACCCAC AAATACCAAT
 AATAAATTTT AATAAG

SEQ ID NO:788: (Length of Sequence = 322 Nucleotides)

GGTCCAATGA AGCTTCAACT CGTTTTGAGC TCAAAGCAGA CGGCAATCA GCAAAAAGCA AAAATAATGT ATCTTACTGC
 ATTACAGACA AAAAAAACA AAAAAACAGA GTGAACTAG ANCTATTTTC AATAGTAGTT TTCTGACAGC TATATAANCA
 AATATAGANG ACATTATGGA ATTAGTGATG TGAACGAGAA CTGTGTCATG TATCCTGCCT GCCAGCAAAG GTAGAGATGG

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CTGTNATATT TGTAATGGTT TACTATGAAG GCTGTTCAT AACCTNCAAT ATCCACTGNT CTGGGTGGT ATACCAAGGA
TA

SEQ ID NO:789: (Length of Sequence = 357 Nucleotides)

TCAATGTGGC AITTTGTTTT NTAGAAAAC CCTTAGTAA GCCTTCTCT AACCCAGAAT AGACACTGGG TATCCTCCAA
GAGTCCATA GCTTTCATTT CATCTTCAC CCTTCTGA GAGGGGAGG CAGGGGATAG GGGTGTGTC AGGCAGTCTC
CAAAATGCCC CTCCTAGACC CCTGAGAGAA TTCATGTGC CAGCAATAAA CCAACAGCAC CTCAGTGGG CATCANAGGG
CCTCTAGGC TCAAGGCTAT TGCCAAAGGG CATTCCTGTT TTATGAGCTT CACGATGGGA ACCAAGGNAG GCTCTGCAA
GACTTCTAG GGGCTTGGTC CTCAACTTA TGGGCCT

SEQ ID NO:790: (Length of Sequence = 366 Nucleotides)

TGGCCAGGCT GGTCTGAAC TOCTGACCTC ATGATACACC CGCCTTGGCC TCCCAAAGTG CTGGGAATAC AGGCGTGAGC
ACTGCACCCA GCCTTGTGTG ATCTTTTAAA GTACAGTCC CATAGATTTA CATTAGAAT AAAAAAGTCA TGACATCTTG
CTTTTATATG GCAGTTTACT CAAGCTTTT AAAGAAAGAG CATTCACTT GCTTTTACGT GGTTTTAGAA TGTTGAAAC
CTTTTGTAA ATCTGAGTAA TTACTGCAT TTNCCATTAA TTCAGCTTAG TTAGACTGCT GGTCCAGTG CTTTGTTTTG
CTGTACATA TACCCTAATA TGCTTTTAA CATATGNCCA AATTCC

SEQ ID NO:791: (Length of Sequence = 317 Nucleotides)

AACAACCCA ACCATAATGG AGAAGGAAAT GGCCAGAGTG GCCACTCTGC AGCGGGCCCT GGTTTTACGA GCAGAACTGA
GCCTAGCAAA TCTCCTGGAA GTCTGCGCTA TAGTTACAAA GATAGTTTCG GGTGAGCCGT GCCACGAAAT GTCAGTGGCT
TTCTCAGTA TCCTACAGGG CAAGAAAAGG GAGATTTCAC TGGCCATGGG GAACGAAAGG GTAGAAATGT AAAATTCCCA
AGCCTCTGC AGGAAGTGCT TCAGGNTAC CACCACCACC CTNACAAGN GATATTCTAG GGGTACTCA AGAGCAT

SEQ ID NO:792: (Length of Sequence = 258 Nucleotides)

GATCAATATA TCCAGGAATT TGIGAAAAGA TCCTAACTT TTCAAACATG TCACAGGTAG TACTTGAAGT ATGCTTGGTA
AAATGTACCG GTTAAAGCAG TATGTTCTC AGATAGCCTG AGATTTTATT TAACAATTAT GTATCTAAGT CTACTAATAC
ATTTGAGCAA AAGAGTGTG GGTNCATAAA TAAGANGTCA GTATTCACT TAGATTATT CAGAACTTG TAAGTNCCTG
TAAATAGCTA CTCIGAAA

SEQ ID NO:793: (Length of Sequence = 282 Nucleotides)

GGAATGACAT GGTCTCTCTN ACTTAAAAGA AACATTTTAG GTTCACTT GCCAAGTTAG GAAGAAAACC AACCTTAGAT
CCCTTCCCC CCACCAATAC TCCTTCCCC AAACCCGTC CCCACCGNC TCTATGTTTA ATTGAATTTT TATTGTGAT
ATATAGAAAA CCTAACCCAT GGCTGTATG CTGAGTGTCA TTTGGCTTCA AGCTGGAACC AGGGAACAGC TTGGCCTGGA
ACCTGAGAC AAGATGCTGG CCTCANAAGG TGGGGCTCA CG

SEQ ID NO:794: (Length of Sequence = 330 Nucleotides)

GTGAGGCTG CAGGGAGCCA TGTTACCCC ACTGCACTAC AGCCAGGGTG ACAACAAGAA CCTTCTCGG CGTGAACCCA
GGGGCGGAG TTGCAGTGA CCAAGATCGT GCCACTGCAC TCCACCAGCC TGGGTGACAG AGCAAGACTC CGTCTCAAAA
AAAAGTTTAC TACTCGGCTT TAATTATTTC GTTTCGGTTT TGGGTGAAAT NATTTTATTA CTGACTGGTT CCTTAGTTGT
ACAGAAGCCT ATTATCTTTA GAGAGACTCT TCATGGTAAT TAACCTAGAT TCTTATTTT CTTGGGTGAA AGGANGGCAA
GTGGATCTAA

SEQ ID NO:795: (Length of Sequence = 332 Nucleotides)

GGAAATAAAG GTGACATGAA CTAAGTATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
 CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGANGT GGTATCCAGA
 TAGGTATATCC TTGGAGAGTA TCCAGGGATG TCTCTTINCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
 AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTNAGAATT CACGTAAGGN ATGATAATCT GAATTTCCAG GGCTAGGCTC
 AGAAGCAGAA AT

SEQ ID NO:796: (Length of Sequence = 305 Nucleotides)

CCCAAGGGGA CAGCTGANC TCCCTGCTCA TAGTAGTGGC CAAATAATTT GGTGGACTGT GCCAACGCTA CTCCTGGGTT
 TAATACCCAT CTCTAGGCCT AAAGATGAGA GAACCTGGGA CTGTTGAGCA TGTTTAATAC TTTCCTTGAT TTTTINCITC
 CTGTTTATGT GGGAAAGTTGA TTTAAATGAC TGATAATGTG TATGAAAGCA CTGTAAAACA TAAGAGAAAA ACCAATTAGT
 GTATTGGCAA TCATGCAGTT AACATTTGAA AGTGCAAGTG AAATTGTGAA GCATTATGTA AATCA

SEQ ID NO:797: (Length of Sequence = 337 Nucleotides)

GGCTGCATTA TGACAAGAAG TCAAGCTTCA TGACAGTTAG TATGGGCTGG AGTCTGCAAA GTCTGAACTG TATTCTCATA
 GAATGATTC AGGTTTCAGG GTGTTCCACC TGCCAGAACC CAAACTACA ACTATGGGCG ACACAAGGGA AGTTTTAGAA
 ATCTCCCTCT ACACGCATTT CTGGTTTTCT ATTATTCCTC CATGGCAGCT GACAGATCTG GAAAGTGNAAA TAGGGGATTC
 TCAAAATCAA AGCCANGAAG ACACCTTGTG TGACACCAAT GGAGTCTCAG AGGGTGGGAA TAGAAGTGAC TTNGNCCAG
 GCATTTGCTG GGAACCTT

SEQ ID NO:798: (Length of Sequence = 341 Nucleotides)

GAACCCITGA AGGTCTAGGC TACAGTGAGC CATGTTTGCA CCACTGCACC CCAGCCTGGG TGACAGAGTG AGACACTGTC
 TCCAAAAATA ATAGTGATAA TAATAATAGT CATTTATTTT AAGTCTACAT GCTGAGATGC CAGAACAGT AAAATTGGAT
 TATAGATTCA AGCAGTATGT AGGTATACIT TCATAAACTG AATACTGATG TAATTTTGGA TGATTAAAAA CAGNCTTTTA
 GTAGGTGTTT AAAAATCTGG NTAATTCCTT TCATGNCATT CAAACATTTA GGTGGCCTGT CTTTGTTTTT TTAGGNTATA
 ACTTGCAAAC ATTCANTTGT T

SEQ ID NO:799: (Length of Sequence = 322 Nucleotides)

TTTTTGAGTA ATGAATTCAT TTAATATAAA CTTTAGTATA GCAGAATACT ACAGGTTACC CAATTTTAAC CCTAAAAACA
 AACAAATGAC AGGCACITCA GTGAAATAAC AAGCCCATGT TCAAAATATAA AATGCTAAAA GTGAGAAAGA AATTATGAAA
 ATATATACCT TTAATTTGCA GACATATAAA CACTTTTGGT ACAGTACAGA TGCATGATGC CAAAAAGTAA AATGNTCCAG
 TTTAAGCTAA CACATTCCTT GTTATACAG NTTATTTTNC TATAGCTCTC ATATAANANA AATATTNCCA GCTCACACAA
 TG

SEQ ID NO:800: (Length of Sequence = 405 Nucleotides)

ATCAAGAGTT GTGTGGTCTA CCGACTGAGC CTGCCAGATA ACCCTGTAGT ACAATTTTTN CAGCATAGTG GAAAAGAAAG
 CCATGNTCT GGGCAGGTCA GGGTTTGANC GCTAGTGCTT TGTATTAAATG ATCATGATGA TAGCTAGTAG ACAGGGCTTA
 CCAGATACTA GGTGCTCTCT TAACTGCTTT ACATATGTA GTTAATCAT TTAATCTTCA TGACATCACC CCTGAGATAT
 GGGTAATATT ATAATGCACA TTTTATAGGT GATGAGAGTG AAGCACTTGC ACAGATTACT CCAGCTTAGT TCATAGCAGA
 GCTGGGACTT TTAATCAAG GCACIAGATG GTTCAGAGC TTTGTACTAC TCTTCCTGGG TCTTTCACAG TCTGAGCTGG
 TCCGG

SEQ ID NO:801: (Length of Sequence = 408 Nucleotides)

CTGCGTTCCA TGTAGCGTCT TCACAGINC TCIGTTATAA GATGGTTTGT TACATTGCTG CAGATATTTT TGCATGTCCTC
TTGAGTTTCT CAAGACCAGG GTTGTATTTT TCCATGTCTG TCGATGAAAC AGTACATGAC AAAAGAAGGT ACTTAATACA
TGTTTGATAA ATTAATTACT GTTGGTAAA TTAATTATTG AAGGAAGACC CAGACTGGTT CIGATAAATC ATTGAATTACA
TTTACAAAT TTGGATAAAT TAGGGGAGCC TTGAGAAGTT AGAGCTCTAG GGAAGGTTCC AGGGAAAGTT TGAAGGATGT
GAAATATGGT TTTCAAAT CATAGTTTAT TGCAGGATTC TGGNATACIT TCCCAAGTGA GGGGNAAGAT GAGGAAGANG
ATGGGCTT

SEQ ID NO:802: (Length of Sequence = 343 Nucleotides)

ATGAGACTTA CTCACTATCA TAAGAATAGC TTGGGAAAGA CCCACCCCA TGATTCANCT GGGTOCCACC CACAACACAT
CAGAATTATG GGAGCTACAA TTTAAGATGA GATTGGCTG TGGACACAGC CAGACCATAT TAGACTCATA ATTTGNCITC
TGCACAGTAA GANCTGGGCT GGGATACCTC ATAGATCATA AACAAATCG CACCCATGAA AAGATTTAGA GAGTCACACA
GGAAAGTCAA CAGAAGNCAG AGAGATGTGG GTCCCTGGNCT TGCATGTCTAT TAAGTGGTGG GNTCCITCAG CTTTCACATN
TTCAGGCAGT GGGGTCAAGA AAC

SEQ ID NO:803: (Length of Sequence = 182 Nucleotides)

GAATGGCCTT NICTAAGGC ATGTATGACT TGCATGANCT CTCTAAAGCT GAACTGGCCT CACCTCANCC TGTCTTGCTG
GCAAATGCGG CCTTCAGTGG GAAAGTAAAT GGCAGCTGCT GTNATTACCT GGTCGNTGAA GAAAGACAGA TGGCAAAATT
NATGCTGTT GGGGATGACA GC

SEQ ID NO:804: (Length of Sequence = 312 Nucleotides)

TTTATTTACT GCGTGTGTA ATNATCACA AACATATTCA TTGTCAAGTG AATGCACAGG CTTTCAAAGG TGATTGTATT
CTGCAAGGTG GGAATAGCC AACTACCTTC TAAGTGAAT GINCAGCCTG CCATTTCOA CCCAAAACCT CCTCTAGATT
CTCAACAGGG CAGCTTCTGC TTCATGCCTC TMTTCGAAA GGTGAGCCTT GTGTAGAAGG CTTAATACCA ACATGCAGAT
CCACCTGAGA ATCACTGGAA TGCTCTGGAC CCAGCTGGAA TGCTTCGGGA ACCCAGTCAG GCTTNOGGAA AT

SEQ ID NO:805: (Length of Sequence = 411 Nucleotides)

CATGCAAAAT TCAGAAATA AAAAANTGCA GGGCCTGGTT GCCACATAC ATTCTCAGG TTAAGGTGGA TTTAAAGATG
CCCAACAGAA CCCAATGAAT CAGAAGCTAA AAGGGACACT TCAGTGATCA GCAGACGCAT TCTCTCACGT AACAAATGGA
GGGAAAGTGA GCACACATTA ACTAGCGAAG TCACAAGGCT AGATTAGGGG TGTACAGAAA TCTAATTCCT GGTGCTATTT
GCAACTACAT ATATTTAAAA TACANGGAGA TAAATACCCA GAACACATTA AGCCTACTGA TTTAAACAGA NCATTTCAAG
ACTGCTACAC AGAAAGGGAA GGAAGCTGT TAACCCAGCA CAGCAGCACA CCTCACATAT TTCCGTCTCA GAGGTAAAT
GGGAAGGAAG G

SEQ ID NO:806: (Length of Sequence = 287 Nucleotides)

GCATTINAGT GCTGATACAG ATACAGTGAG TTCTGCCCT TTCTCTCCT NTATATTGAA GGGATTATAA ATGAAGCTCT
TTAAACATTC TGAGATCINT AAGTTGATTT CTACATGAAC TCCAAGTGGT GTTAATGACA TTTTCAGAAA AGATGCTTTA
CTTAGCTGAC AAGAAAAAGT ACTCTGTAAG CCTTTATTG TATGTGATAA AACAGAGTTG ATAAAATAAT CTACTATTAA
CTTATCAATG CAGTCITACA GAATCCACCT ANTTACAAAG TAGATAA

SEQ ID NO:807: (Length of Sequence = 369 Nucleotides)

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GGCAGATATA ACCTTTTCTC AAACATCTCT AATTGTCTGC ATACCCCACT AATATTGGCT ACATAATACA TTTATTTTTG
 TCTTTTGGGA CTAAGTGCCT TACTTAGTTT TGTCAGTGT ATTCATTAAT TGAAGAAATA CTTATTCAGG ATTTCTATTA
 CTAGTTTTTG CTCAATATAT TACTAATTG AAGAAATATT TATNCAGGAC TTCCATTATA TGAGCACTGG CCTTTGTGGT
 ACAAAGATAC AACATGAATC TGAAACTCAA TTTAATCTAG AAAGATTTAT TAATATAANC TCATCAGAAA AGCAAGNCAT
 CTACTGTGAT AGCTACAGTA TTGGTTAGAA ATGGAAGAG AGAGCAGAT

SEQ ID NO:808: (Length of Sequence = 361 Nucleotides)

CAGGCTTTGT ACCAGCCGCC ATACTCTCCA AAAGATGTCC CATCCTTTTN CTTTCTTTTG CATTCTTCTC TTTCTTCAGC
 ATGCATCCAG ATGGGTTTAT TTTTCATC ATCAGAACCA AACTCCCTTT CATGTGCACG AGTGAGAATC TCTTTGTACA
 GTGTTTCTGC TTGCTTGAAC TTTCTTGT TCAAAATAGCA GGATGCCAGG TTATTTTNCG TCTTAGCCAC GTTGGGGTCA
 TCAGGTCCCA GTTTGTCTG GTAGATCTCG AGGCTCTTT GATAATAATA TTCTACTTCT TCATACTTGC CCTGGGTCTT
 GGCACAGTAA AGGCCAAGTT ATTTAACTGC TTGGCAACAT C

SEQ ID NO:809: (Length of Sequence = 353 Nucleotides)

CTAATTTATC TTCATGTCCA GTGAGCAGTG TTGCGTTTTT CTTGTAGCA TTTGGAAATG ATTTACTGGA ATTACAAAAC
 CTATTTTCCC TTAAATTTT AGCTTTGGCT CTGGCTGCTT TTTAGAATAA TGCAAGATAA AAATCACACC TGAGGGCTGA
 AAACGGAGAG GGAATGGGAG ACTTGATATT TAAGCAGCTT GAATGGTTTT CCNTTNTTTT ATTTTAAAG AAATGCACCT
 GCCTATGATA CTGTCTCTCC AGTGAAATGA TTACTCTCTC ATTACTCTAT TGATACANTA TTGTGCATGC TAGTGTGTGA
 TTTCTATACA GTAGCTTGAA AATTGATTAA CCT

SEQ ID NO:810: (Length of Sequence = 296 Nucleotides)

GAGGTCAATG CTTCCAGGC TCGAGTTGAT GCCCAGAGT GTATTGTACG AGCATTGAAA GATCCAAATG CATTCTTTTT
 TGACCACCTT CTTACTTTAA AACCAGTCAA GTTTTGGAA GCGAGCTTA TTCATGATCT TTTAACCATT TTTGTGAGTN
 CTAAATGGC ATCATAATGC AAGTTTTATC AGAATAATAA AGACTTCATT GATTCACCTG GCCTGTTACA TGAACAGAAT
 ATGNCAAAA TGAGACTACT TACTTTNATG GGGAAATGGCA GTAGAAAATA AGGAAA

SEQ ID NO:811: (Length of Sequence = 493 Nucleotides)

CCAGGAGCTT CTCCTCTCTT GCCAGGGCTA TGAGCAGAAA CCTCAAATAA ACCCTGGGCA GAGAAAACCA ACTTAATGAA
 GAGGACGTTG CTGTTTCCAC TGGCTTCTAA TTTTGCAGAT GCAATGAGCA CTTACGGCTT TTGCAGTGGT TCAGGAAAAG
 GCAAGAAGAA GCAGATTGTC ATGTTCCAAA GCCCTCTGAT GGCTGCATGG AGCCAGCGGT GCTGTGACTT TTTTAAATAG
 CTTCACTACC TTATATACGT ATGTCCTTAT TTACTCTTTA TCTATGCTCT CTTCTCTCCA TCAGCCTGGG AGCTCCCTGG
 GGCAGGTCTG TTTCTCCCTT CCAGTCCGGA NTTGCGAGGA GCTGTGCCCT CCCCATCACA CTTGGAGGCT GTCINAAGGC
 AGGGGCTGTG GTCTCTGCCA TTAGACTINGA AGCTCCCCAA GGTAAAGGT CATATCTCTA AAAAAGCTTA GAATAGCTTA
 GGAACCTAGG GGT

SEQ ID NO:812: (Length of Sequence = 337 Nucleotides)

AAATTCACAT ACTTGTAAGT NATGCAAGCA AATTCACACA TAATTATTTT TAAATGCTAG ATAGTTGGTA TAATTNCAAT
 CATTTTAAAT ATGTTAAGAC TTGTTTGTGA CCTAACATG AGGTCTATNC TGAAGAATGT NCCATGTGCA CTTGAGAAGA
 ATGACTGGAG TGTCCTTTAT ATGTATGTA GGTCCAATTA GCTTATAGAA TTGNCCTAGT CCTCTATTTT CTTATTCANC
 TTTTGTGTGG TTGTTGTTCT ATCCATTATT AAAAGTGGGG TATGAAGTC TCCTACTATT ATTGTGCTAT CATCCTCAGC
 AAATAACAC AGGANCA

241

SEQ ID NO:813: (Length of Sequence = 310 Nucleotides)

AGGTGGCCTC AGNNCAGCCA AGCTGACCTT GGCCTTGGC TGGCTTCTNT AAGGCANTAG AGTGCCCA CAATAAGCNCA
 CCACCTNTCC CCACCTCCTC CCTTCTCTCC CATGCCACCC CACTTGCTTC CAAGGGCTTG GTTCCAAAG TNACATCCAG
 GGTGTAAGAG GTTGGGGAAA ACGTCCTGCA AGNTGGCTCA GGGATCTNAT TCCATCAGAT GGTCTCATGA ATACTGTGGG
 AGATTAAATC CATCTCAAAA TAGGCAACCA ATGCTATATT CTGAATNINA GGTCTCTGGA CTGAGTCCCA

SEQ ID NO:814: (Length of Sequence = 361 Nucleotides)

GATTTGAGCC ATCAGAAATC AGCTTTTGTA GATAAAGAAT ATGAACTAAT TGACTATGGA TGGAAATTATT GTATATAGTC
 AGCTTGCTGA ATTATTGGTT AAGCACTACT AACTATATCT TGGTAACTA TGGTGCAACT GAGCCACCCC CTAAAAGCAA
 AAGACATTTA GCAGTTCACC ATATTTTGCA ATTAACCAA TGAGAGCCTA TGAGANTGAA ATGNTTTCAG GTGGAGTTTG
 ACAATACAAT TCATCCNTAA TATATAGGNN NAAATATTTT CTCAAAAATA ACATCTATGT GGTAGGNCCT TAAAAACGAT
 GGATGNAATG CATGCAAAAT TCTCTGGTAC ACAGACACAT G

SEQ ID NO:815: (Length of Sequence = 301 Nucleotides)

GAATTTNACT CTTGTTTCCC AGGCTGGAGT GCAATGGCAC GATCTTGGCT TACCGCAACC TCCGCTGCT GGGTCCAGC
 GATTCTCCTG CCCCAGCCTC CTGAGTAGCT GGGACTACAG GCATGCGCCA CCACGGCCAG CCAATTTTTC CATTTTNAGT
 ACAGACGGGG TTTACCAATG TTGGTCAGGC TGGCTCGAA CTCCGACCT CAGAGGATCC GCCACCTTG GCTNCCAA
 GTGCTGGGAC TACAGGTGTC AGCCACCACA ACCGNCCTAA TTAATCTTC TTGAAATTC A

SEQ ID NO:816: (Length of Sequence = 310 Nucleotides)

ATCTTTAACA TATTAAAATA GACATGAGAA AAATGTGTCA TTTGATAAAA TGGGGGAAAT GTAATAAATG ATTACCAGAA
 ATATAAAAT AAGCCGTATA TGCNCTTAAG TAAATCGAAT CTAGGCATCC TTAAAATGTA AAAAAGGNTG CAACAAGAGT
 AAGNGCCCA GAATGATGTA AATTACAGGA ATGGGGTGTA ATGTAACTC TAGAGGAGT GATGTTTGA AGAAGCAAAG
 NGAATGCAAT GANGAAGCAA ACTTGTTTTA GGCAATNCT CCTGGGAGTG GGACCAGCA GCCCCCTCTT

SEQ ID NO:817: (Length of Sequence = 225 Nucleotides)

TGGCATGCGC CTGTAGTCCC AGCTACTCAG GAGGCTGNGG CAGGAGAAIN CCTTGAACCC AGGAGGCAGA GGTGCGAGTG
 AGTCGAGATT GCACCACTGT ACTGGTCTCA GCCTAGGCAA CAGAGCGAGA TTCCATCTCA AAAAAAAAAA AAAGTTAAAA
 NTAATATGCT AACTATGATA CAACTGATA GCAATATTGT CTTTAGATTG AAAATAAAAA TAGGG

SEQ ID NO:818: (Length of Sequence = 225 Nucleotides)

TTAAAAAAC CTGTAGTTTC ATTACCTTTT TGAATAATGN CATACAAAAA ATGTATTTGN TTTTGTGTC TGTGAGAAIT
 GATGTTTGTA GATTAAATAT CATTTTGTIT AGAATTACAA AATAGTTTIT AAATATTGTC TGAGAAAAGC CAAAGTTAAT
 GCAACCNAGT GGAACTGTA AGACNNTTG AGTATGTIT TTTTATTGG ATGCATTGG ATTTT

SEQ ID NO:819: (Length of Sequence = 280 Nucleotides)

TTGACTAGCT TCCTACGTCA TTAAAAATC TTTAAATAGT CTGTCTTAAT GGCTGCAAAT TTGTGTGTA GTCTGGGCTA
 AAATCTGATG AAATGTTTTA CCTGTGGTTA AGTAATTTAG CAACTCGTAT CTTTTTAAAA TATTACAACT GGGNATTCTA
 GTACGTCACA AACATTGGIN ATATCATTTA TTTGTGCCA TGTCTGTGC TATGAAATAC AGTAGAATGA AAATTTACTT
 CAAAGCATTC ATINTCTTCC CCCAGGNAT GATGGCAAAA

SEQ ID NO:820: (Length of Sequence = 328 Nucleotides)

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CCAGTTAATT TTGTAAAGTT TATAGNGATG GTTTCAGTTA GACCTGTGCT GTCAATACAC TAGCAATTCA CATGCACATT
 TAANTTTAAA TCTAAGTTTA AATTTAAATT AAGTTAATAT TAAATAAGAT TTGAAATGCA ATTCTCAGTC CTACAAGCCA
 TGCTTCAAGT GCTTCATATC CATGTGAGGT TAGTGGCTGC TATACTGGNT AGTGCAAAAA GAGAACATTA TTGTAATCAT
 AGAAATTCTA TTGGTAAGTT TATGGGGTAG TACATGGACT AGAATGTAGT GAGGTAGTGA GCTGTGGATG CAGAGAAAGG
 NCACTGGA

SEQ ID NO:821: (Length of Sequence = 310 Nucleotides)

TCAGCATGTG TTCTGTATG TMTTGAGATG ATTATTTGGT TTTCCTTTT ATTGTGTAA TTGGTGAAT TGCATCANCT
 TTAGTATCTT AAACCAACCT TGCTCTCTA GGTAAACCT TATGTGGTCA TAATATATAA NCCTTTAAAT ACATTATTGG
 ATTNCCTTTT TTAATATATT GCTGAGGATT TTTCATGACT ATAATCATAA GAGATATTGG CATATGATTT CCTATACTTG
 TAATENCCTT GTTAGAAGGA GTTATATTA GGNITATNC TGGCCTCATA AAATGGGTG AGAAATGTCC

SEQ ID NO:822: (Length of Sequence = 372 Nucleotides)

GCCAGATTGT NTTCCTTGCG AGCCCTGAC CCGGCTACT CTTCACCAGA CACGGCCCGG CTTGGCCCA CAACACAGCC
 GTCCACCCC TGGTTCCTTC ACCTTAGCAG TAGCAGTAGC TCTGGGTGGA GTTCCAGAG GAGCTGACAG GCCCTCTGCC
 ACTGCTGCCA CCCCCAGGC TAGGGAGGA ACAAGAGCC TGCTTGCTGT GCTGCACAT CCAGCATGCC ACAGCTGCAC
 TACGGNGAGG AGGTCAGACA GTCCCCCAA CAAGNCCCG ATCCCTCTNC TCTCCACCAG GGAGGGCCCT GGGCTTTGCG
 CCCACAGTAC AAAACGTTCC ANCCCGGCT GATCATTCTG GGTGGCAGC GG

SEQ ID NO:823: (Length of Sequence = 288 Nucleotides)

AGCTGGCATC CTTGGGAAA ACCAACGAAC AGTCTCTCA CAGCCAAAT CACCACAGTA CTCCAATCCG NAACCAAGTG
 CCGCATTAC AGCCCATCAT GAGCCCTGGG CTNCTTTCTC CCCAGCTTAG TCCACAACIT GTAAGGCAAC AAATAGCCAT
 GGCCCATCTG ATAAACCAAC AGATTGCCGT TAGCCGGCTC CTGGCTCACC AGNATCTCA AGNCATCAAC CAGCAGTTCC
 TGAACCATCC ACCCATCCCC AGNGCAGTTA AGCCAGNGCC AACCAACT

SEQ ID NO:824: (Length of Sequence = 325 Nucleotides)

CTCTGAGGT CAAAGCTGCA CGTGGGAAG AGAAAGACAA GGAGACCAAG AATGCTGCCA ATGCCTCTNC ATCCAAGTCG
 GCCAAGACCG CCACTGCAGG ACCAGGAAT ACCAAGACGN CCAAGTCATC TGCTGTGCCC CCAGGCCTCC CTGTGTATTT
 GGACCTGTGC TACATTCCTA ACCACAGCAA TAGTAAGANT GTTGATGTGG AATTTTCAA GAGAGTGCGG TCTTCTACT
 ACGTGGTGAG TGGGAATNAC CTTGCTGTG AGGAGCCCAN CCGGCTGTG CTGGGACGCT TTNTTTGGAA AGGAAAAGGC
 TCACT

SEQ ID NO:825: (Length of Sequence = 318 Nucleotides)

AATCAGCCCT ACAGCGATTC CTCCACCCCT ATTAGCAAAT ACCGTAATAT ATGNTCTAG TAATCATCCT CTCACAATTC
 TNCCTTTCTT AATTTNCCG TGAGTCAAGT TTCTTGACCA CAATGTTATG CTGAGGAAGA TCTAATGTTT TCCATGGAGC
 AGAAATTGTT AGTCTCAAC TCCAAGGTCT GCCTGTGCAA GCCCTGTTN CCGTGTCTC ATAAACCTTG TCAGGCATTT
 ATTATTCAG CACATATCTA CTGINTCTG CACAAGAATT CATAAGGTTT TGATGAATTA TGTCCTTCT GAGTGGGA

SEQ ID NO:826: (Length of Sequence = 287 Nucleotides)

TACAGACTCA GGTATAGGG TGINATTTT TAAGTCAATA TTCAGTTTCA CAGCCAGAAT CTGTGAAGAG AGAACAAACC
 ATGAGAAAAC TAACANTTTT ATGGTGATTG AGAGGTCCA AGTNCCTGGN GTTTTAAAAA AATCAGTTT TAAAGATAAA

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CTAACTAAAA CTAGTCCAAG CACTGAGACA GAGTATTAAA AGATGGTAGC ACACCCAAAG NGCACGGTGG GTCTTGAATA
GCTAACATGT TTCAAGTAGT GGAGGNAGAT GTGCTTAAAT AGTTACC

SEQ ID NO:827: (Length of Sequence = 426 Nucleotides)

TTTTTTTGT TTTGGGACAG AGTCTCACTC TGTCACCCAC GCTGGAGTGC AGTGGCGTGA TCTCGGCTCA CTGCAAGCNC
TGCCCTCCCGG GTTCATGCCA CTCTCCTGCC TCAGCCTCCA GAGTAGCTGG GACTACAGGG GCCCGCCACC ACGCCCGGCT
AATTTTITG TATTTITAGT AGCGACAGGG TTTCACCGTG TCAGCCAGGA TGGTCTCGAT CTCCTGACCT CATGATCCAC
CTGCTCGGC CTCCCAAAGT GTTGGACTAC AGGCATGAGC CACCGCGCCC GGCGGATGG TTAAACATT TTAATAATA
ATATTTAGTG CTAAGACAGG ATATGGAGCA ACAGGAATC CTATATGCTT GCTGGTGGG AATGCAAAAT GGGTACAACC
ACTTTTGGGA CAAACAGTTT TAGTAA

SEQ ID NO:828: (Length of Sequence = 402 Nucleotides)

GGCTGCTGC TCCACTCAA CAGGTATCTG GGAGCCAGCA CTCTGGCAGT CCTCTAAGC TCTAACTCTG GTTTTACTGT
TTTNNAGGIG AAACCTTGT CCTGGGAAT AGTCTGGCCC GCTCCTTGA ACCACACTCA GACTCAATGG ACTCTGCCTC
AAATCCCACC AACCTGTCA GCACCTCCA AAGGCACCG CCCTGCTTT CATCCTGTGG CCTCCACCA AGCACTGCCT
CAGCTGTGG CAGGCTATG TCCAGGGTA AGCTTACCAG AGTCTGGCC CTNCTCCCT CCTCACTCT TTCTTCACT
TCTTCTGA GCTCTGGAG GCCAGAGAG ACCTAGCTCT GTTGCCTCT GNCINGTGT GGGGACTAGG GACTGGACTT
AA

SEQ ID NO:829: (Length of Sequence = 417 Nucleotides)

ATCGTTAGG AGTCGGCTTT ATGTGGGAAG AGAGAAAAA ACTTGGTGAA ATGCTTTCTG GACTAATTGA AGAAAAATGT
AAACTACTTG AAAAATTTAG CCTTATCCA AAAGAGTATG AAGGCTATGA AGTACAGTCA TCTTTAGAGG ATGCCAGCTT
TGAGAAGGCG GCANAGAAGC ACGAAGTTT GAGGCAACCT GTGAAAAGCT GAACAGGTCC AATTCTGAAC TTGAGGATGA
AATCCTCTGT CTAGAAATAG AGTTAAANGA AGAGAAATCT AAACACTCTC AACAAGATGA ACTGATGGCA GATATTTCAA
AAAGGATACA ATCTCTAGAA GATGAGTCCA AANTNCCCTC AAATCCACAA ATAAGCTTGA AGNCCAAAT CATCTNGCA
AGGTTCTTC CCAATGG

SEQ ID NO:830: (Length of Sequence = 404 Nucleotides)

GGTTTGAGAG TAGAACAGGA AGTTGTGAGT AGAGCCTTGA AGGAAAGAGA ACAGCAGGTG CATGNTCCC CAGGCAGGAC
TCAAGGTAGC CACTCAGGCA TCAGAAAGAG TCAGGCGGCC ATGATGGCTC ACACCTGTAA TCCAGCACT TTGGGAGTCT
GAGTCGGGTG GNTCACCTGA GGTCAAGAGT TCGAGACCAG CCTGACCAAC AGGGTGAAAT CCTTCTCTA CTAACTACA
AAAATTAGCC AGGTGTGGTG GCACATGCCT GGGACAAAT TGGGATCAGT GTTCTCCAGT CTGAACATAG TCTTCTGTTA
CCTGGGAGAG AGTGGTCAGG TACTTCCAGC TTCAGGCGAG CCAAAAGCAT TGACAAAACG ACAGGTAGGA TGGGGGAGT
AAGT

SEQ ID NO:831: (Length of Sequence = 330 Nucleotides)

AATTTACAG GTTGIGCTT CTGAAATCTG TACCTCTTA CTCATAACAT TTAATGTAGC ATTTCTCAAC CTGACCAATC
TGCAGAAAAT ATATGTCATA TATTAAITGT GTATACATGA ATATATGCAT TTTCTGGTA AAAAGTCATA GTTTTNCATA
GATGTCATGT AATCTTTTAA GAGATTCTCA AATAGGAACA TGATTCCACC CCAATAATGG TGAAAAATGA TCAATTTAGA
TGAAAGGGAC CTCAACAAGC CTCTTGAGAT ATGAANCATA AAGAGNAAAT ATAAGCCGCA ACTTTTIGAC ATGACAGATT
CATAATGGTT

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SEQ ID NO:832: (Length of Sequence = 402 Nucleotides)

CIGTTTTCTC CTTTGTGTTT CCTATTTATN CTCCCAGTGC TAACITGATA TCINCTGTG TGTACACGTG TGTNTGTGTG
CAAATATATT TCTAGGAACA AGAGCAAACA TTCTAGTAAC TATCATTCTC TGATGTGGAG AACITGGGCA GAGATCTGAG
TTACAGCTTT GTGGATTAT TCTCTCTGAT GAGAGATGCG CCCTTAGAAT GTCATGGTCC TAACCCCGTC ATGGATACCA
GGGGTGAATG GCAGGGTTCT TCTCTGCCC AGGAGGAAGG GTATGGGGAG CCGGTGCATC TTGACTGTCA GGTACCTGT
CTTACCACCT TTACAGCTAG GCTTTCTGAG GTGCCAGCGT CTCTGGGAA TTCAACTGT AGTTTAGAGG CAAGCTGGGT
GA

SEQ ID NO:833: (Length of Sequence = 398 Nucleotides)

AGCCTTTTTC CAGAGATCAG ACCTCTTTAG ACATCTGAGA NTTACATACAG GAGAAAAACC TTATGANTGC AGTGAATGTG
GAAAAGGCTT CTCCCAGAAC TCAGACCTCA GTATACATCA GAAACTCAT ACCGGAGAGA AACACTATGA ATGCAATGAA
TGTGGGAAGG CTTTCACAAG AAAATCAGCA CTCAGGATGC ATCAGAGAAT CCACACGGGA GAGAAACCTT ATGTATGCNC
TGACTGTGGG AAGGCCTTCA TCCAGAAATC ACATTTCAC ACACATCAGA GNTTTCATAC TGGAGAAAAG CCGTATGANT
GCAGTGACTG TGGGGAATC CTTTCACTAN GGNAGTCACA ANCTTCCATG TGCATCAAAG GNTTNACANC CGGGGAGG

SEQ ID NO:834: (Length of Sequence = 394 Nucleotides)

CTTTTGTGT AGTCTGTAAA ATCATTTCCA GGTAAATCT AGAGCTTAAT CCATATGNG TGCCATCTTT TGCTTTTCCA
CACCTCTNAT CCTAGGTAAG TNAGAGCTAA GAGTATTIN CTGAGCTTCT ATTATGGGCC CAGCATATGT NATAATTCT
TTTACACATA GGAATCTGAG GCTTAGAGAA GTTTACTGAT TTACCTAATG GCACACCATA AGTNCCTGGG CTAAGATTTA
AACTCAGGTC TCCTGACTTA ATTACAGATG TCAGCTCGAT GGTAATCATA ATAATATTGT NGTTGTGTGT GTTGTGTGTA
TNTATCAACA ATAGTAGTAG CTAAGTCCAT TTCATGAAAC AGCTCATTGG ATAGTCCCAT NTGGATAATT CTGA

SEQ ID NO:835: (Length of Sequence = 422 Nucleotides)

GTCTTCTGCC TCTATAGATT TGACTATTCT GGACCTTTCA CATAAACGGA ATCATGTAAT ATATATAATA AGCAAAAGGT
AACAAACAACC AAGCTGGCAA TTTGGTTGAT GAATGANTAA ACAAAATGTG CTGTATCCAT ACAGTGGAAA TATGTGTGCC
TACTACATGT GGATGGACCT TGGAAACATC ATGCTGAGTG AGAGAGAGCC TTGGTATTGT TTCATCTCCC CAGGAGATT
CAAGGTGCAG CCAAGGTTGA GACCCACTGA CAAGCAATGG ATATGGTTGG GTGCAGATGA AATAAGGCAG CCAGGGGCAG
GAGGGATGTC TCATTGAAGA TGACTGTTTT GTGGGATGCC TAGCAGGGGT GGGGGGATGA GGTATTGATA ACCAGCAACC
CCAATCTTCA ACACAGCGTG GA

SEQ ID NO:836: (Length of Sequence = 408 Nucleotides)

CTCAAAAGAG TTGGCATCTC AGAAGGGAAG TGTAAGTNAG ACAATTGTCA TTGATGATGA AGAGGACATG GAAACAAATC
AAGGGCAAGA GAAAAATTCC TCCAATTITA TTGAACGAAG ACCTCCTGAG ACTAAAAACA GAACCAATGA TGTGGATTTC
TCCACTTTCA GTTTTTCAG AAGTAAGTA AATGCAGGAA TGGGTAATAG TGGTATCACC ACAGAACCAG ACTCTGAAAT
TCAGATIGCT AATGTTACAA CTTTAGAAAC AGGTGTAAGC TCTGTGAATG ATGGCCAATT AGAAAATACT GACGGGCGAG
ATATGAACCT AATGATTACA CATGTAAACA TCACTGCAGA NTACCCACTT GGGAGGATTG TCTCTAACCG GGAATGCAGT
CCAAGTAA

SEQ ID NO:837: (Length of Sequence = 347 Nucleotides)

TGCTCTGTT GCCAGGCTG GAGTGCAGTG GCACGATCTC AGCTCACTGC AACCTCTGCC TCCTGGGTTT TAGCGATTTG
CCTGCCCAN TCTCTCAAGT AGCTGGGATT ACAGGCATGC ACCACCACTC CTGGCTAATT TTTGTATTTT NAGTAGAGGC
GGGGTTTTGC CATCTGCCT AAGCTGGTCT CGAACTCCTG GCATCAAGTG ATCCATCCAC CTTGGTCTTC CAAAGTGCTG

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GGATTACAGA CGTGAGCTAC TTCACCTGGC CTGTGTGGCT CTTTTTCAAA AAAAGTTAC TNGACTCTTG CTTTATGCA
AGTCCCAGAA TGGATTGAT TTAGGGA

SEQ ID NO:838: (Length of Sequence = 275 Nucleotides)

AATTGCCAAG GAAAATTTTA TTTTAGCTTT GCATTACAT ATTCTAAATA ATCCTTTCAC TTAATGCAAT CAGATTCTTG
TGACAAGCCA AATACITGTT TTTTGTGTG TGTTGTGTTT CCTTCACTT TTCATTGTAT GCCCTTCAGA AAAATCTGAG
AAGTGGGCTT CCATTTTGA AAAACAGGAC TTCCTTAGTA CCATAGATAC GTAGATTGCA ATTTNCTTT TCCTGCAGCA
TTACTGACCT TGTGAAATGA TGCCTATGGA TACGG

SEQ ID NO:839: (Length of Sequence = 387 Nucleotides)

TTTTGINTT GTGTGTAGAG ACTGGGTTT NCCATGNC CAGGCTGGT TGAACTCCT CGGCTTAAGC NATCCTCCTG
CCTTGACTTC ACAAAGTGCT TGANTTACAG GTGTGAGCTA CCACGCCCTG CCATGTTTC TTGTGTGAAG GATCTGTITA
GTTTTATATC TTTCTGTGGC TCATATCTAA TTTAGTTGAC AGTACCTGTG GGTCACTAGG TAGACATTGC TAGCAGACGT
TTAGAAATGA AATACTAGAG CTGGGAAAA AGTTGATATT TGAGATAGAG ACTTGAAGAA CATTAGCAGA GAGTTGGTAG
TTAAGGTCTG TGAGCTGGTG AGCAATTCAA AATAAAGCA GAAGAGAAGA GGAAGACAAG GGTCAAC

SEQ ID NO:840: (Length of Sequence = 367 Nucleotides)

GTACTAAAGC CATGCAGGAA GGAGGAAATA ATCAGTGAGC CACGGGCTGA ACTGTGTGAA AAGAAATGGA GGGCAAGGTC
ACAAACCAGT CCTAAGTGC TTCTAATTTA ATGTAATCCT CACTGTTTGT CATTATTGCT TTTNATGGCC ATGAAATCTG
TTTTTCCCA GINCTCTAGT GTAATTGGA ATTAATTTC CAGCTGCTTT ATTTTTTTC TAGAAGAGTC GGGGACATTT
TCAGGATTAG TAGAGGTGTT TCTACAACAC CTTCATGCCT TCGATAGTGT GTAAGAGTTC ACCAATTGAN TTACCTTATT
CTGTTCAAGAA GTAGTAACIA TGGAGTTTAA CCACTCTGGG ACATAAT

SEQ ID NO:841: (Length of Sequence = 346 Nucleotides)

TGGAAAGGAA AAGCAAAGA TTGAAGAATA AAAACATTTT GTATTTGCCA AACTTGTNC TGTAGCAGTA AGTGTGAAAC
AAGTTTGCTA CATTTCCTT TTGGTTTITA CTGGTTGGG GCITTTTGT TTGGTTGGTT TTAAAGGATT TAGGGGATTG
GCAAGTCAGT TTGTCAGATG TCAATGAACA GAAAACCTAA GAAAAAGGT AGCAAAAGTN CTGCTGGCCC CAGATGGATT
TNCCTTAAG TAATTTCTA ATCATTAGT ACAGCTCTGT GTCAAAAGAT GTACATAGAA ATTTATGCTA GATCTTTAAC
ATCTTTCCTT ACTGTGTGCA GAAATG

SEQ ID NO:842: (Length of Sequence = 326 Nucleotides)

GTTCTTTGAA ACAAACGAGA ACAAAGACAC AACATACCAG ANTCTCTGG ACACATTCAA AGCAGTGTGT AGAGGGAAAT
TTATAGCACT AAATGCCAC AAGAGAAAGC AGGAAAGATC TAAAATTGAC ACCCTAACAT CGCAATTAAA AGANCTAGAG
ANGCAAGAGC AAAGACATTC AAAAGCTAGC AGAAGGCAAG AAATAACTAA GATCAGAGCA GAACTGAAGG AGATAGAGAC
ACAAAAAACC CTTCAAAAA TCANTGATTC CAGGAGCTGG TTTTGTAAAA GTTCAACAA ACTGATAGNC CACTAGCAAG
ACTAAT

SEQ ID NO:843: (Length of Sequence = 380 Nucleotides)

GGCCTTCAAA TTACAAAAAG CAATTTACAT TATAGTAATA GTTCATGTTT ATAGTACAGG AACAAGAATG AGTTAACTA
AATATTCCAA ATCAGTACAA GTNATNCCT TTTTTTTTTT TTGAGACAGG GTCTCACTCT GTACCCAGG CTGTCTGTCT
TGTTCATCCA GGCTGCAGTG CAGTGGAGTG GTCACACTC ACTGCAACTT CAGCCTCCTG GGCTCAAGCA AGCCTCCCAC

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CTCAGTAGCC TCCCACTCCT GATTAGCTGG GACTACAGTG AATGTGTGCG CATGCCCAGC CTAGTGGTAT TTTTAACAGA
TAANTAAGAA TGGAGGTAGT GGCAGAGGTG GAGTGAGANG AGAGACANGT AAAATATAGG

SEQ ID NO:844: (Length of Sequence = 257 Nucleotides)

TTTCCCTCTC GTTGCCCAAG CTGGAGTGCA ATGGCGTNAT CTTAGCTCAC CACAACCTCT GCCTCCCAGG TTCAAGCAAT
TCTCCTGCGT CANCCTCCCG AGTAGCTGGG ATTACAGGCA TGTNCCACCA CGCCTGGCTA ATTTTNTATT TAAGTAGAGA
TGGGGTTTCT CCATGTTGGT CAGTCTGGTC TCAAACCTCT GACCTCAGGT GATCTGGCCA CCTCGGCCTC CCAAAGTGCT
GGGATTACAG GTGTGAG

SEQ ID NO:845: (Length of Sequence = 420 Nucleotides)

CTACACACAT CTGCAATTAC CTGGCAGTAA GCTTGGAGAG TAAGTTTTCG AGATGCAGAT CAGAAGAGAT TAGGAAGAGC
TTTGACAGATC ACCGCAAGTA TTGTATTTTCT ACTCTAAATT AAACAGAAAA CCCAGGAAGG GTTTTAGGCA GATAAATGGC
ATTATTTAGT TTCTGTATTT AAGTCATCAT TTAGGTTACT GGGGGAGGCT GCCTGAAAGT GGATCAGAAG TAAAAGGCAG
AGATACCAGC TAGGAAGCTG TTGCAGTGAG CCAGGTGAGA AGAGAGGGCC ACCTGGACCA GGTAGAAGCA GTACAGGTGA
AAAAANTCAG ACACTTCCAA ATCTTCTCA AGATTINATA CATTTATTTGG CTGGGCACGG TGGGCTCACA CCCGTAAATC
CCAGCACTTT TGGGGAGGCC

SEQ ID NO:846: (Length of Sequence = 215 Nucleotides)

GNCTGGGTGA CAGAGTGACC CTGTCTCAA AAAACAGTGA TTGTTTGTA GGAATTATT AAAACCTTGG TTCAATATCC
AATATCTTAA CTTTAAATTT TCAAATCTT CAAAAGTAGT AAGTATTACT ATGTCTAAG CACAGTGCAG TCCAACGGAN
TATGTGAGCC ACATATATAA TTTTAAGTAG GCCAGTAGTC ACATTAATAA GAAAA

SEQ ID NO:847: (Length of Sequence = 266 Nucleotides)

ACACGAAGAA TCTCTTCAT CGCAAACAG CTTTCAGAGA TAGATGCTTT GTTCCAATC GAGCATGCTA TTCCAGTGTA
CTGNACATAC TGTAACCTC GTGTAGGCA CCTTTATGAA GAGATNAAGN CACTGGCATT TCAGTGGGAT TTTAAGCATT
TTTAATAGCT TCATGTACAG CATGCTGCTT GGTGNACAA CATTAATTCT NCGATATTTG TGTAGCTTGA NTGTAACCGN
TTTAAGAAAG GTTCTCAAAT GGTITG

SEQ ID NO:848: (Length of Sequence = 275 Nucleotides)

CNCCTCGGTC CCTTTTAAA AATTACTTTT CAGCCGGGCA TGGTGGCTCA NGCCTTGTA TTCCAGCACT TTGGGAGGCT
GAGGTTGGAG GNTCACCTGA GGNCGGAGA TTGAGATCAG CCTGACCAAC ATGAAGAAAC CCCGTCTCTA CTAAAAATAC
AAAAATTAGC CGGGCGTNGT GGCACATGNC TGTAAATCCAG CTACTCGGT GGCTGAAACA GAAACCAACA ACGNCTGACC
TCAGGGAGAT GTCTAAGAGC TTCTGGCATG CCTCA

SEQ ID NO:849: (Length of Sequence = 318 Nucleotides)

GGAATTTTNC TAGTGAGGAG TGGAGGAAG GGGCCTGGT GAGGAGTAGC AGCCTTINCA AAGGCCCTGA GGCAGGAATA
CCTGGGAAGT GGGGGCGTGC TTGINTAAGA TGAGGCTAAA GAGGAAGGCG AGGCTTTACT TAGGAGGAAT GGAAGGCCAC
TGAGTGTAA AATTAAAAGC AGTNGGGGCT GGGCACAGTG GCTTACACCT ATAATCCCAG TACTTTGGGA GGCCAAGGTG
GNTGENTCAC CTGAGGTCAA NGAGTTINAG ACCAGCCTNG CCCAACATTG GGCTCTACTA AAAGTACAAA AATTAGCT

SEQ ID NO:850: (Length of Sequence = 320 Nucleotides)

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ATGTCGCGCA ACTCAGGAGC AGGGCAGGAA TCAAACCTTTT TGGAGTTGCT ATCAAGTNC TGAATTTNCA ATCCCAACCG
TCCGCAGAAC ACTAGATGTG TGNATGINTG CTTGTGTGTG CATTTGTAGT AAAGAGGGGG TTGAGAAGTG GAAGGCAGAG
NCAGGAGTNG GCATCTACCA NGGCATACAT NAAAGACCCT TACACCAACA CTGCCCTTCC CAGNAATGTG AGTGTAACTT
GGTTTCCTAA AACCTTGGGC TGCAGTCCAG ATAGTCATGG TTAGANCAGA TGGTTGAGGA AAGGTTCAAG GCAGTAGGAT

SEQ ID NO:851: (Length of Sequence = 170 Nucleotides)

CATCCAAGAT ACCAAGATAT ATGAGGGAAC ATTNNNTTTA ATAAAAACA CAAAACCACA AATCCAAGAG GCTCAGNTAA
CCCCAAGTAA AATATATACT AAAATACAAG NAAAGGGAA AAAATGCATG NACACACACA TATAGGCATA TCATATTCAA
ACAGTTGTTA

SEQ ID NO:852: (Length of Sequence = 256 Nucleotides)

CAAAGTACAC ANGIGTATTT ATTACATTTT GCAAGCACTC TGTCTACAT TTCAAAAACG CCACNTCAA GCTGTTGGCA
CATTTATGTA CAAAACAGAT TAATTGTAAT GCCTGTACA AAGCACTCTG TGAAAATACA AACTCTAATA CCAGAAATAA
AAGCCAAAAG TGTCACATC ATTACATAAG TNGAAAAGTC AGTTTNGAA ATTATCACA ACTGTTATGN CACGGAAGTG
AAATACTATA ATATAG

SEQ ID NO:853: (Length of Sequence = 281 Nucleotides)

GTATGNGTT TCTCTCTCT TGTGCTTCT AGGATATTIN ATCCTTGACT TTAGGGAGTT TGATTATNAA ATGCCTTGAG
GIGATATTTT TNGGGTTAAA TCGCTTGEN GTTCTCTAAC ATTCTTATAC TTAGATATTG ATATCTCCTT CTAGGTTTGG
GAAGATCTCC GTTGTATTC TTTTGAATAA GCTTCTACC CCATCTCTTT CTTTATCTCC TCTTACAGC AAATAAAGTT
TTAGANTTGC CATTTTINAGG CTATTTTCTA GACCTGTAG G

SEQ ID NO:854: (Length of Sequence = 255 Nucleotides)

TCTGTCCAGG ATTATTACCA GCTAAACCAN GTAATGGAGG TCTATGCCTG ATGAAGAACA CCTGTAAAAG CTGGAAAATG
TGGCTGTCTT CTCAAATGGG CAGATACCAG CACAANGATA CAAGGATTGT AAAGACTCAG AATCATGTTA CTTCAGAAG
AAACTANATA AGNTCCAACA ATGAACACAA NATATANAA CTNAAGGANA TTTGGANAAC ANTGCATAAA CAAAACAAGT
TTAATGAATG ATTAG

SEQ ID NO:855: (Length of Sequence = 333 Nucleotides)

ATAGCTGTGG TGGTAACCCA CCAGAGTGAG CATGCTTNC TCTNAGGATA GACGTTGGGT AGTGGGATTG GGGAGAGGCA
GGACAGAGGC TTCCGTTGTG TCTCTCIAAT TCATTGTTT TTA AAAAGGA TTTGGGCTTA CAAGTTTCAA ATACTAAGAT
TTNATAAAGT CACATGGATT TTA AAAAATC ACTCTATTGT ATGTTTGAAA CATTCATAA TTTAAATAAA AGGATTGGTA
TTATATATGT NCTTGAGTTG CTATAATGTT TTACGGTTT CCTTGTCTC ACTTTTGAAT TTNCGAGGA TCTCCTGGGG
GAAGNTTCAG TCG

SEQ ID NO:856: (Length of Sequence = 230 Nucleotides)

TTTINAGACAA AGTCTTGCTC TGTCACCCAG GCTGGAGTGC AGTGGCGCAA TCTCGACTCA CTGCAACCTC CACCTNCTGG
GTTCAAGCNA TTCTCCTGCC TCANCCACCC AAGTAGCTGG GACTACAGGC ACGTGGCACC ATGCTGACT AATTTTTTGT
ATTTTTTTTA GTAAAGACGG GGTTCACCG TGTTAGCCAG GATGGTCTCG ATCTCCTGAC CTCATGATCT

SEQ ID NO:857: (Length of Sequence = 334 Nucleotides)

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AAAAACAATT AGTAAAAATT ATGCATTAAG GAATTATTTA CTAGACTTTC TGAAGTAAA AAATAAGTCA GCTGGTTTTC
 CCTTTGANTT CCTATATATT AAGGCAGAAT TCTCTATACT GTCCACCAAA ATCATAGTTA CAACTGTTTA CTGAAATGA
 TTTATATACT GCATTGACCT GGCATGTTAA TATTINCTA TAAATATCAC CACTTATCCC CATGCCCTAA AGCAGTTTTT
 TTAAACCCAT TCTTCTTGG AGAATAATTA TAATACCTTA AATACAGAAC TTGGGTTTC TGATCTTGCC ATAGCCATGT
 AGCACAGCCA CTGA

SEQ ID NO:858: (Length of Sequence = 301 Nucleotides)

GGAGAAACGC CTAATGTAGA TGATGGGTG ATGGGTGCAG CAAACCACCA TGGCACGIGT ATACCTATGT AACAAACCTG
 CACGCTCTGC ACATGTATCC CAGAACTTAA AGCATAATAA TAAAAAANTA AGAAATGGA AATTGATTTT AAAAATTTTT
 ACAATGTGCA TCAAAAGACA ACATTAAGAA AATTAACAGA NTGGAAGAAA ACATTTGCAA ATAATTTATC TGATGAGGT
 TTAATATCCA GAAAATATAA AGANCTCCTA CANCTCAACA GCAANAAAAG ACAACCCNAC T

SEQ ID NO:859: (Length of Sequence = 332 Nucleotides)

TGTCCTCACC CATAGAGCTA TCAGAGGGTG CCTGCNATTG GCAGACCCCTT TACATTTCCC TTATAAAAT CACTTCCCTG
 CCAAGATCTC TGTCAAGGTT TGAGAAGTCA GAGCATTAAG TTATTINCAA TAAATGGTAT GTACATGANC ATCAGCAAGC
 TCCAAGAAAT GACTCGAGGG CCTTTNACTA CTCAGAGAAT AAAGCAAAAA TGCCAGGTTT TCAGTGCTTG TCCTTTGTGC
 CAGGGATTTG GACGTGTTTT TTGTTAAGTN CCAGCGTTGA GCTATGTTCC AGAAGATGGA GCCTTCCAGA AATTAATTGT
 AGTGCTTGAA GG

SEQ ID NO:860: (Length of Sequence = 233 Nucleotides)

AAACGNIATG TGATTTTAGC ATTACAACAG TAATTCAGAA ATATCTCANN TGTTACATTG ATGTCATCAN TATTACAAAA
 AAGGAAAAAA AAGTGACAGG CAACAGTGAA GAGCACCAGA GACCCAGGCG ACACCTAAAG TAGACCATGC TTCCTTCCCT
 CCACTGCCAG GTTATCGTCC CGGGAAGCCC CCCACCCCTT CGCT TCCTC CTCCGCTTTC CCTAAAAAA NNG

SEQ ID NO:861: (Length of Sequence = 327 Nucleotides)

GGGCAGGTGT CAGCGCCCGT TTCACCGCCA CGTCGCGGAC ATGGTGATTT CAGAAAGTAT GGATATACTC TTCAGAATAA
 GAGGAGGCCT TGATTTGGCT TTTCAGCTAG CTACTCCTAA TGAAATTTIN CTCAAGAAGG CACTGAAACA TGTNTTGAGT
 GACCTGTCAA CTAAGCTGTC TTCAAACGCC CTGTGTGTTCA GAATTTNCCA CAGTTCAGTG TATATATGGC CTAGCAGTGA
 CATAAACACC ATTCTCGGAG AACTGACTGA TGCTTCTGCT TGTAAGAACA TACTGCGCTT TATTCAATTT GAGCCAGAAG
 AAGATAT

SEQ ID NO:862: (Length of Sequence = 378 Nucleotides)

AATCAGGTCC ACATTGTGT CCTGGATGCT GAGTTTGCTG AGGGTTTCCA AGACCACTCT CTGCGGGGAA AGGACGGCAT
 TGGGGCCCAG GGTGGAAGG GGGTCCTGGG CTTCANCTGA AGGGCAAACCT GCCCAGTGTA GGAGTCCGTC CAGGACAGGC
 AGGCAAATNC TCTCGGGGTA TGGAGATAGG TCCAACCTGCC CCGAGATGTT GGCGAGTGTA ACCAAGGTGT TTCCCGGAG
 CATCTCCAAG CAGTCCCACC ACCACTCCAC TTTTGTGAG CTCACCCCTT GGGTCCCTGTT CCTNCTCCTT TTCATAAGTT
 AGTGGTGCTT GCTTCCGGT TCTGGGTGCT TTGTGGGTGC AGCAAGGATC AAGCTTTG

SEQ ID NO:863: (Length of Sequence = 374 Nucleotides)

TCAAATTAAT GGTTTTATTT CCATCTGTAA CACTAGCAGA GGAGTCCAAA GCAGACTGAT ATCCATGGAT ATAGTTTAAA
 TGTAACAAAG AAAGAGTTGA ACTATGTACA TTGAAAAAAG GAAAGACATT TTTCATACC AACCTTCCC TAGTTCGACG
 TTTCTGAATA GTAGAAACAA AACACATTTT TAAATCTTTC TATCAATTTA ATTTAGGACG AAGTAACACA ACTTTTATAA

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TTAACCACTG AAGTNGTCTT TAAGGACAAA ACTTAAATTT TAAAATGGGT GTTACCATAT TTATGAGTG GACTGACTCC
AAGGTTGCCT TGCTCCAAGN NTGGGCATCG TGACATTGCC GTGATGCCA GAGG

SEQ ID NO:864: (Length of Sequence = 223 Nucleotides)

AAGGGGATAG AGCAGACACT CCGCAGGINT CTGAGATTG TCATCCGCTG AGGGTAGAGC TGAGGGTGGA AGGGGAGTNA
GCAGACACTC GGAAGGTGTC TTNAGGCTCA GGGAGTTATC AATTATAGAA TGTGTGTGAG TTGGAGGAGG TGGCTGGTGG
CCCATCCTGT TTTTAAAGT TTCANCTGTG AGGTAGGGCC AGTAGGGCAA TCCTGAAGAA TGG

SEQ ID NO:865: (Length of Sequence = 228 Nucleotides)

GAACCOGGGA GGCAGAGGTT GCAGTGAGCA GAGATCACAC CACTGCACTC CAGCCTGGGC AACANAGCAA GACTCCGTCT
CANAAATTTN CCAAATCTG ACGGAAAGAA AAGAAACAAA TGGTTCAGAT GGGACGGAGG GTGGGGGAGG GGGGGAGGGT
GAGTAGGAAC CAGGAGGGCT GCCTGGGGTG GGGGAATAAN TTAAAAAAG GAACGAGTTA ACAACAGC

SEQ ID NO:866: (Length of Sequence = 328 Nucleotides)

GCACCACGTC AGAGAGGCCC CAGGCCACTG AGCCCGGGAG GAGACCCAGC CGGCCAGCCA GATGTGTGCC TGANTGCCAC
AGACTTCAAG CAGTTTACAA ACGAACTCA CTGTTAAAAG CTGTTAAATC TCATTAAAC AGTAGACGAG TGCTTTAGAT
TCCTGAATA TCAAATAATA TATACAGATA GACACTGAGA CATGACAGTC TAATCTAAAG CATCTTTACA GATGCATTN
CTTGAAAAGT TAGTCTCTT TTTAACTCTG AATCAGTGAT AAAATTGTTA ATTTGCAAAA GAGTACAGTT TTAAGCAAGA
NTAGAGTG

SEQ ID NO:867: (Length of Sequence = 361 Nucleotides)

GTTCATGGC ATGTAATAAT TATGTAAAT TCAAATTTA GTGTCCCGAG TTCTACTGGA ACGCAGCCCC TATGTGGTTC
ATGINTTGCC TCCAGCTCCT TTCACACTGC AGCAAAGCAG GGAGTGTAA GTACACCCA CGGCCACGG GCCTAAAATA
TTTCTATCA GACCCCTAGA GAAAAATATG CCGACCTGG ATGTGACTGA GGGTGGGAC TTGGGTGAAT GCCGGCCAGG
AGTGACATCA AGGGTTTGAA GCAGACCTC TGTCCAGGAG GGAGCGGAGG CAGAGCAGG ACAGTAGTNA GGAGGCCATC
TGTGGTGACT TAGGCAAGGT GAGGAGGATG TAGGAGGCAA G

SEQ ID NO:868: (Length of Sequence = 364 Nucleotides)

AAAGCAGCCT TCAGGCTACT CTCTCTTGGN TCCTTGCTCT GGGAAGAAG ACTCAAGCAG CTTTAGAAAA AGTCCACGTG
GCAAGGAATT GTGGTCTTTT GCCAACAGCC ATGTGAGTNA TCATCTTAA GAGTGGNTCC TCCAGCCCCA GTAAAGTGT
CAAATGACAG CAGCCCTGGC TAACATATG ACTGCAACTT CATCAGGGAA CTTGAGCCAG AAAAATCAG CTAACCTGCT
CCTAAACTTC TGACCCACAG AAATGGTGAG ATAATGAATG CTGTGTTTAA GCTGCTAAGN TCTGGAATAA TTTGTATTTC
AGCAGTAGNA TAACTAATAC AANGCCACCC AAGNATCAAT TCCC

SEQ ID NO:869: (Length of Sequence = 383 Nucleotides)

AGCGACAGAC AAGTGAGCAT CACTACCAGA GCTCTGCCCTC CTGTGAGATC AGTAGCGACT TTAGATTGTC ATAGGACCAT
GAACCCCTGT CATGCGAGGG ATGTGGGTG CACTCTCTT ATGAGAATCT AATGCCTGAT GATCTGAGGT GGAACAGTTT
CATCTGAAG CCATCCCTGT GCCCTTACCT GTGGAAAAAT TGTATTCCAT GAAACAGTT TTTGGGGCCA AAAAGATTGA
GGACCGCTGC TCTATAAGAA ACTATTACTG AAATAAGGTA TAAAGTCTTT ATCTTACTTA TATTATATC CTCTATGGT
TCCACACACA AGGTGCTTTT TAACTTAAG TTGTAAACT AAAATATTNC TTTAACTTT AAT

SEQ ID NO:870: (Length of Sequence = 409 Nucleotides)

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CAGCTTTGCA AATCAAATAG AATTCATTTT GCCTCCNCTN ATCTTACAAC TATTCTCTGG AGTAGGCAGG CTGGTTGAAC
 TTCAAGAGAA GAGGCGTTCC TGAGAGCCTC CTGGGTGAGC TTGCACACCT GGGGGCCAGA TGINCTTTGC CCTCCTTGCA
 AAGCCTCTCT AGTCTGGTGC CCAGAGAATA CAGCTTCAGC AGCAGCTCAC TTGCTTTTN AGTTTAGATG AGAAAAACA
 GCAAAATAGT CCATCAAGGA CAAATTCTTG CCAATGGATT TNCITTTGCA AGGANGTTCA CCTTTGNCC TCAAGCATCA
 TCTTTAAGTT GTGAATGCCT GATGGGAGGT CCAGGTTGNN CTGTGGGAGG AGCTNGGGT GGNITCCAAA ACCACCTGGG
 GACCASTGG

SEQ ID NO:871: (Length of Sequence = 290 Nucleotides)

TCTTTGCATT GATAGATTAG TTATTTATGC CAGTNGTCTC TGCTGGCTT GTTTTGGTTT TNATTGCATT TGTGCTAG
 AGATTGTTTT TAGTTTINCA ATTTCTTTCT CTGTACACCT GCCCTCCCC CACCCACCA CTGGGTACT ACCTCCTTTT
 TGGCACTACA TGATGCCTTA AGCCCAGNT TGCCTAAGCT TTCATAACAG ATCCAGCAC TGCTCATCC CAGTGGTGA
 GGTNCTAAAT GGGATAACCT GATAGTGTGG GAAGGCTGGC TGGGGTGT

SEQ ID NO:872: (Length of Sequence = 313 Nucleotides)

AAAACAAAAC AAATTTAAAA GCACTCAAAA ATAACCTCAA AAAGAGACTA GTGAGTGTCC CTTAAGGAAA GCCCTTCTG
 CAGATTCCCA CAGAACTCGG CCCAGGCACT TAACCTCCAT CTCAGCTCTG GTACAGCTCA CTGCGTACAG TGTGTACCAA
 ACTCTTATGC CTGNCIGCT GATAAAITCT ATTTATCTCT GAACCTCAAT TTATTCAAAT CTAGTTATGA TATATCATAG
 TGCTTGTAAT TGTGTAAAA TATAGANGTA ACATACAGCA TGTGTCTACA CGNTTAATAA ACTGGTGTCTA ATT

SEQ ID NO:873: (Length of Sequence = 300 Nucleotides)

TAGTAAACAA GTATTACTTC AACTGATACA ATGGCTACAT GACATCAAAG TACTATAAAT NATCAAACT ATCGTACAGA
 AAAATTACAA ATTCGTTGCA AAATACATTA TACTGCTACC ATTAAGAAAA AAGTGCTTTT NGTTTTCTTT TCTTTCTTTT
 TTTTTTTTTT TTTTGCCAGA AAAGTATCT TNCATATAG AAAATCCTAC ATGTACCTT GCATGTGGCT AGGNTATATC
 ATAACGGAGT TTGTACTGAG TCCTTCTGAT TTGCTGGATG AAGGGCTGAA AAATATATTA

SEQ ID NO:874: (Length of Sequence = 364 Nucleotides)

GAGTCATTGA TGCTGAGAGA TTGTAAGAA TATACTGACA GCATCCTTGT AGCTGCATCA CAGTAAATCG GACTTCTGAA
 TCAAGCAGCC CAGCCTAGCA GCTGATAAGA GTGAATGTAG GTGAGAAGCA TTACCTTATT CCTGTAACAA GAGAACTGTT
 TTGTGATAAG TGAACTAGG AATGTAGAAG AAGAAATATC CTATGGCTAT TATAAAGAN GAAGGACTTG CTTGANTGAC
 TTGGTGGTGC ACCAGAAAAT AACTTTTACA AGAATGCTTT CTGTAAGCT GCTGCATGT TCTGGAGGA AATGTTATTT
 CTAATGCATG TTATTTCTTC AAAAGATAGG ATAACAAAGA ATTG

SEQ ID NO:875: (Length of Sequence = 341 Nucleotides)

ATCAGTCCAA TGCAGATTAG TATCACTTTG CTCATAAAAG AGAGTATAAA GGTCTTGAA GTTTTIGAAA GGAGCGGCTN
 AGCTGACTGT TAAGGAAGCT ATCTTTTGTG TACAAGAAAT TTATACTTTT CCTTCTAAA TTTCACAAAC AGAATATTAT
 TAGAGACAAC AGAATACATT TACAAAAATG GCATCAGAAA TAATTGANTA CATGTGTAC AATATCTNCT ATTAATGAAA
 TAAATGTATA TTTNATATGA TATTTGGTCT TTATGGGAAA ANTAATATAA TTNCCAATAT TCTAAGGNTG ANCAAAGNNG
 GTTTACAAAT AGCATGCAAG G

SEQ ID NO:876: (Length of Sequence = 327 Nucleotides)

GTTCANCITT GTGGGTCAAC TTCTAATATT TGATGGTGGC TACACTGTGA CAAGAAAGGT TTTNAGCTT GTTGGGTCA
 GTGGATGGGC ACAAGGCGAC CCAGTGGTGG TCCCCGNC CCAGGAGGAGA ATACATTGTA GAATATAAGG TTTGGAAGTC
 AAATATAGT AGAATGTGTA TCTAAATAGT GACTGCTTTG CCAATTCATT CAAACCTGAC AAGTCTATCT CTAAGAGCCG

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CCAGATTTC ATGTGTGCAG TATTATAAGT TATCATGGAA CTATATGGTG GACGCAGACC TTGAGAACAA CCTAAATTAT
GGGGAGA

SEQ ID NO:877: (Length of Sequence = 404 Nucleotides)

ATTTGGCTCC TGAATGTGC AGAAACTGG TTTGTACAC TGGGAAGGA GAGAGTGAAG ACCCTCCAGT TGGTTCCTCA
GTCAGCTCCG TTCTTGGTGT CGCTTCTTG CAATTTTTT CCTCCCCTGG CCCTTCCTGT GAGGGTTAAA AGGGCCATCT
CCAAGCCAGG TGGAGCCCCA ATCCCATTGA CCAAGAGGGC AAGGTATGGG GTCACCTTCT CATGGAAGCC CTCTTCCTAA
AGGAGCCCAA AGGGGACACC TGCAGAGGGC GGGCTGTGAT CTGTGTGTGA ACTTCAACAA AATCTCAGGT TAGTATTTCT
CCAATTTCAG TTGAACCAG ATGTGTTATA CACTACAAA TGCAGATTCT GGTGCCCTC TCCAAGAGTC GGCTCAGTT
AAAA

SEQ ID NO:878: (Length of Sequence = 340 Nucleotides)

TGTACGCTG TGCTGTGGC ACGAACACCT TCAGGGACTG GAGTGCTTT TATCCTTGA AGAGTATTCC CAGTTGAAGC
TGAAAAGTAC AGCAGAGTGC AGCTTTGGTT CATATTCACT CATCTCAGGA GAACTTCAGA AGAGCTTGAG TAGGCCAAAT
NITGAAGTTA AGTTTTCCAA TAATGTGACT TCTTAAAAGT TTTATTAAAG GGGAGGGGCA AATATTGGCA ATTAGTTGGC
AGTGGCTGT TACGTTGGG ATTGTGGGG TGGGTTAGG TAATGTGTTA GTTTATGNTT NGCAGATAAA CTCATGCCAG
AGAACTTTAA AGTCTTAGGA

SEQ ID NO:879: (Length of Sequence = 372 Nucleotides)

GAAAAGATAA TGAAGGAATA ATGCAAAGCT GAAGGCTGTG CCAGATGTAA GAAGTGATTA TGAAGGATAA AAGAAAAGGG
CTTTCCAAGC AGGGAAGAGG CATCAGAGAG AAAACCAATT GTTGAGCCAG TATTCTGTCA CAGGGACATT TGTCTTTNTC
CTTTAATGCC CAGTAAGGGT CTTCTCAGGT TCCATTAAAC ATGCAGAATC ACAAGACCCC CCCAAGTTA CCATGGTGCC
AACCGACTCA AAACAATACA GACAAGAAGC TCAGCTCATC AGGAAGGCTG CAGCAGGCAT ATGGGAACCA TCTTGCTCCA
CAAAGGACAG CTNAGATGGC AAAGATCCCT ACAAGGGTCC ATATCCACGG GG

SEQ ID NO:880: (Length of Sequence = 405 Nucleotides)

GAGCTAGGCA CCAGGCATTC TGAGAGGCC CAGGAGTTTA AGAAATGAAT TAAATATTCT CCCCTGCCCT CTTTGAAGTG
ACTCTAACGA GGAGACTTAA GANTTATTTT GTAATCTCTA GTTATATTIN CTGAATTTCA GAGCTTAAAT ATTATACTTC
AACATGAGTC ACACCTTAT TTATATGTTG GTTGTCTCA GCTGTGTGT GGGTTGGTGG AAGGAGACCA CACATACATA
CACACAGAGT ACATACATGC TGTGTATGTT ACACACATAC TCACACCCCA CAAAGTGAAG CTCCATGCTC ATTTTGTTTA
ACAAGACTA GAGAGGCTT GCAGACAACA GCTACCTGGA GCAGGAACAA GTGAAGCATG TTTCTGAACC ATTTCTCAAG
TCACA

SEQ ID NO:881: (Length of Sequence = 336 Nucleotides)

GTCTTTNCAG TCAAAAGTCC TTGAAGCTGG GACCTTTGA AAGTCTGTCA GTTACATGTT GTTGGTAGTG GCTTGTTTTG
ACCGTTTCAA AAAAGGAAGA AAAAACCCT TAAATCATTT TTCTTTCTC TTTTCTACTG CAAAGGCCGA CGAGATTGAA
ATGATCATGA CGGACCTTGA AAGGGCAAAC CAGAGGGCAG AGGTGGCTCA GAGAGAGGCG GAGACCTTAA GGGAACAGCT
CTCATGGCC AATCACTCCC TCCAGCTGGC CTCACAGATC CAGAAAGGCA CCAGACGTGG AGCAGGCCAT AGAGGTGCTG
ACCCGCTCCA GCCTAG

SEQ ID NO:882: (Length of Sequence = 369 Nucleotides)

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TGCCATTAGC AACACTGTTT AGATGAGATA ATTAAGAAAA AAAGCCAATT GAATGATTGA GTGAATGANT GATTGAAAAT
 CTTTCCGAAG TTATAATAAT AATTGTGATT ATTGGGGTCA AAGCAAAACC ATTTTAGTCT AAAAGATTGT AACTATATACC
 AACTTTTACC CAATTGGGAA TGAAAAATTA CATTTCCAAA CCATGTAGAA ATTCTGANCT CTTTGAAATA TTTCCTTTTG
 TGGGAAAGAA CCAGAAATTC TTTGTATAT GTACCCATTT ATCTTATTIN AGTTACCCAA CCAAAAGATA AAATAATATT
 CTCAAAGAGA TAATTGACTG GAGGAGTTTA AAGTGTATTAT AAATATTAG

SEQ ID NO:883: (Length of Sequence = 369 Nucleotides)

CTGCCATAAG AATATCAGCC TGGGGGCAGT CCAGACGAG CCCTTTGTCA TCCTTTCTGT TTGCCTAGTC TCAGCAGACT
 GTGATCAGAA GGCATGTCT GTGGGATTTT NCCTTTCCCT TTCTTGATCT CTCTGTGCTT TCTAGGTTGT TTGGTGTTC
 ATTGTTATGG TGGCTTTTNA TTTTAAAGCC CCTTGAGCCC CATGATGGCT GGTGTCAACC TGTTCCTTTA CACTGTGTGG
 CCAGGTGCTG CTGTGCTTTC TTAGGGCATC ATCAATTGCA AATATTTCTT TTTGCTCCCT TTATGAAGAT GTTCTTATAC
 CCTTGCTTTT CCATATTTTT TTGGGGCCAA GCAATGCCAT CTTCTTTTA

SEQ ID NO:884: (Length of Sequence = 327 Nucleotides)

AGTTCATCTT TTTCCAGAGG GGTCTGGGTG CCTTTAAAGG GGTGCAGGCC GAAGAAGATG GTGGCTTGGG GAAACTGGAG
 CTGAAGCTGG ATTCAGAACT CTGAGGCACC GGGATGGGGA TGGGAATAGG GACTGGCACA GGCAAGGGGA CGATTACAGG
 ATACGGCACC AAGAGGGTGG CTGGTGGGAC CAGGGGGGAC AAGGGGGAGC TAAAAGGCTG TGGGGGCACA GGGGCATAGC
 CAGGAGGAGG CTGACAGGGT GGGGGCCCGA GAGTGCCCTG GGAGGGAAAC AAATTCTTGA GCACAGCTTC AAATGGCAAA
 GTGGGCT

SEQ ID NO:885: (Length of Sequence = 380 Nucleotides)

CCAAAGCTT ATCCACCATG ATCAAGTGGG CTTCATCCCT GGGATGCAAG GCTGGTTCAA TATATGCAAA TCAATAAATG
 TAATCCAGCA TATAAACAGA ACCAAAGACA AAAACCACAT GATTATCTCA CTAGATGCAG AAAAGGCCCTT TGACAAAATT
 CAACAACCTT TCATGCTAAA AACTCTCAAT AAATTAGGTA TTGATGGGAT GTATCTCAAA ATAATAAGAN CTATCTATGA
 CAAACCCACA GCCAATATCA TACTGAATGG GCAAAACTG GAAGCATTC CTTTGAAAAC TGGCACAAGG ACAGGGATGC
 CCTCTCTCAC CACTCCTATT CAACATAGGT GTTTGGGAAG TTCTGGGCCA GGGGCAATTT

SEQ ID NO:886: (Length of Sequence = 400 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCCCTTCT GGGTGGAAAG GAATGAGTGT TTCANACTTA
 GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCCTCATTT CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
 GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGAGAA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
 ACTCTGCAGT AGCAAAAGCA TTAGAATATC ACAGAGTGA AATACAGGCT GAACAGGACA GAAAGATAGA AGAAGTCAGA
 GATGCCATGG GAAATGGAA ATGAGGAACC CAGCTTCGCC GACAGNAGGC TTGCCACAC TGATTCATT TCGGAGATGT

SEQ ID NO:887: (Length of Sequence = 363 Nucleotides)

TAAAATAAAT GCTCTGGATG GGAGAAATGT GGAAGTTACT TTGGAAGTGG ATAATAAGTA AAGGCTGAAA GAGTACTGAT
 ATACATGCTA AATAAAACCA ATATTTCCCT GAATGANCTA TTCAAAGCAA TTCTGGTGGG TGTAGACAG GACATAGAGA
 CCTGGAGAAG AAGCTCCCAT TTTTATAAAG AACACAAACA ATCATGTATA GAATGTTGGT AGAAATATGA ATGGTGAAGG
 TCAATGTAAT GAAGCTTAG ATGGGAATAA GANAGGTTAT TAGACAAGG AGAAAAGGTA ATCTTGTTTA TAAAGTGGCA
 AAGGAAGTTG GCCTGAATTG TATTCATGTA CTAGTGCTTT CCT

SEQ ID NO:888: (Length of Sequence = 318 Nucleotides)

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ATCTTGCAATG ATTAATACTA TTGGCCCTG TN CCCTTTATCC TCAGCTGGTT GTACAATTCT TGAATGCTTT CTTCCTCCCC
 TGAGGATGCT ATAGATATTG TCCTACTGTN ATCTGAAATN AGTCGTTTTG GAGAAGTTTC TCCATCCAGA TACCTATAGA
 GTCGTCTTT TTTTTTTTTT TTTTTTTTTT ATATGCAAAC NCTCGCTGTA TTATTCAGGC TGATCTGAAT CTCCTGGNCT
 TTAGTGTTGT GACAGCTTTG GCCTCTTAA ACTGCAGNT TACAGGCATG AGCCACAGTG CCTGGCCATC AAGTAGCA

SEQ ID NO:889: (Length of Sequence = 349 Nucleotides)

ACAGAAATCT ACGTAGACTT CINCCAAATG CCACATGAGA GCAGTGGCAG AATACAGAGA GACCGCGAC CACAGCAAGG
 AACTGTAACG GCCAACAGTC CTCAGGCATG CAGGCCTGGG CCAACAGCAC AACGCAGAGT CGCTTCTTCT CAGTCCAGCA
 ATTAAATGA CCATGGCAGC CAGGGTTTCA TTAGGTTACT TTCAAAAACC ACCTTGGCTG GAAAAAATGT TTGGTAGTTT
 AATCTGCATA TACGGACAGT CATGCACCAC ATAATGATGT TTAGGTCAAC GATGGACCAC ATATTCAATG GGTAGTCCCC
 TAAGGTTTAT AACCAGCATA TTTTTTACT

SEQ ID NO:890: (Length of Sequence = 341 Nucleotides)

GTNGTAGGGG TTCGTAGGTA GGGCTAGTAG GTAGGGTTAG TAGGTAGGSC TAGTAGGTAG GGCTAGTAGG TAGGGTTCGT
 AGGTAGGGTT CGTAGGTAGG GTTAGTAGGT AGGGTTCGTA GGTAGGGTTA GTAGGTAGGG TTCGTAGGTA GGGCTAGTAG
 GTAGGGCTAG TAGGTAGGSC TAGTAGGTAG GGTAGTAGT TAGNGCTAGT AGGTAGGGCT AGTAGGTAGG GCTAGTAGGT
 AGGGTTCGTA GGTAGNGTTC GTAGGTAGGG TTAGTAGGCG GTCTNTCCTT CTCCACCCT GGNVNCITGT AAAACNTTAT
 TTTACAAGCA ATAGGAATTT G

SEQ ID NO:891: (Length of Sequence = 344 Nucleotides)

GACCTGGCTG CGCACCAGGA CCGCNTGGAG CAGATCGCG CCATTGCCA GGAGCTCAAC GAGCTGGATT ACTACGACTC
 CCACAATGTC AACACCCGGT GCCAGAAGAT CTGTGACCAG TGGGACGCC TCGGCTCTCT GACACATAGT CGCAGGGAAG
 CCCTGGAGAA AACAGAGAAG CAGCTGGAGG CCATCGACCA GCTGCACCTG GAATACGCCA AGCGCGCGGC CCCCTTCAAC
 AACTGGATGG AGAGCGCCAT NGAGGACCTC CAGGACATGT TCATCGTCCA TACCATCGAG GAGATTGAGG GCTGATTCT
 CAGCCCATGA CCAGTTCAAG TCCA

SEQ ID NO:892: (Length of Sequence = 367 Nucleotides)

CTGGGCAACA TGGTGAACCC CATCTCTGCT AAAATACAAA AATTAGCTGG GTGIGGTAGT GCCTGCCTGT AATCCCAGCT
 ACTCGGGAGG CTGAGGCAGG AGAATTGCTT GAACCTAGGA GGTGAGGTGG AGGTTCAGT GAGCCAAGAT AAAAAGAGTG
 AGACTCCGTC AAAAAAAAAA AAAAAAAAAATA TATATATATA TATATATATA TATATTINGN CTCGAATCCC ATCTAGGTTG
 CTGCAAAATGC CATTATTTCA TTCTTCTTCA TGGCTGAGTA GTTTTCCACT GTGTATGTAT ACCACAGTTT ATCTTCTTGT
 TGATTGATGG GCGTTTGGGC TGGTTCCACA TTGTTGCCAG TTGCAAA

SEQ ID NO:893: (Length of Sequence = 220 Nucleotides)

GCAAAATATT TATCCAAGT TAGTATTTT ATGCAGTAGT TCCCCCTCG AGACTTGTA TAACCACATC TTTTAAATCT
 GTAAATAATG TTATCAAAAT AATCTTAATC TTTGAAATCT CACAAAAATT TATATTTTAC AATCCACCCT GAATATCAAG
 GCTGCAAGAN TAACACAACA TTCTCTATAT CCAATATTT TACAGCTGTA CCCAAAAAGG

SEQ ID NO:894: (Length of Sequence = 313 Nucleotides)

GGGATTGGGA TTGTTTGGCT CTGAGGCTGT TAAGTCTGGA CTGATGCTGG AACTAATAT CAATGTTTAA CAGGGTTGAC
 TGTCTTAAT GATGTGCCA GCTGTGGGTA CAGATGCTT GCACATTACT ACCCTCTATT CTCACAATCT TCCATGGGGG

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ATGTATTAGA ATCCCTTTT ATAAAGGATA AAGGTGAGGG TCAGAGAGAC TAGGAAGCCT GTNCAGGGTG ACACAATACA
AAGTGTGATA AATGGGTTT GTACTCAGCC ACTCTGCTTA TTAACATCAG CAGTATGGTT AATGGGGTGA CCG

SEQ ID NO:895: (Length of Sequence = 304 Nucleotides)

GGTCTAGATT CAGTTATGAA TGTAGGCATT AGTTAAAATT AACAAAGATGC AGAGTATTAA TTCTTAAGA CAACAAGTG
ATTTCTGTAA GTTTGAGCCC TATGTGGAAA GCATTGTGGA ATCTTAACCT TTTTGTACAC ACTCTTGTGG GACGTATCAT
ATAAATGTCA GCACTAAGTA ATGCTTGTGTT TGTGGCTGAA TATTTTNCGT AGATGTTTTT GAAGTTGACA TGAATTACGT
GCATTTAAAT ATATATTGCC ATCCCTTAGT TTGTAATTAA GGATTNGGA ATATGGGTTG TGGG

SEQ ID NO:896: (Length of Sequence = 337 Nucleotides)

GCAAAGTATT TCATCATATG CATGTACTGT ACCTTATTTA GCCAGCCCCA TTTTGTGTTGG CTGTGTGGAGA ATTACAATAG
CTGTTTTGAC TGTGTATCA CATGCCAGGC ACTGTACTGT GTATTATCTC ATGTAATTCT CATAGTTACT GCATGGTGTA
GGTATTTTNA TCCCCAGTTT ACAGGTAGAG AAAGTGAACC CAGAGATGTT AAATAATTTG CCCAAGTTTT TTGGCTGATT
ATACTGATGA AGATACTGAT ACTAGCATTG TGTGTTCAGT TATTTGCCAG ACAGAATTCT TTATTTTNTA ATACATAATA
TCCATTTACT CTGAGG

SEQ ID NO:897: (Length of Sequence = 316 Nucleotides)

NATCACCTNA GGTCAGGAGT TCNAAACCAG CCTGGCCAAC ATGGCAAAC CCCGTNTCTA CTAAAAATAC AAAANTNAGC
CAGGTGTGGT GGTATGTGCC TGTAAATCCA GCTACTCAGG AGGCTGAGGC AGGAGANTCA CTGAAACAGG GAGGTGGAGG
TGCAGTGAG CCGAGGTTGC AGTGAGCCGA GATTGCACCA CTGCACTCCA GCCTGGGCGA CTNAGCGAGA CCCTGCCTCA
AATAAAGAAA TAAATAANTA AAGTGGGGAA GTTAGTGGTT TCTGGTGTAT TCAGAGTTGT GTACCCATCA CCCTGG

SEQ ID NO:898: (Length of Sequence = 200 Nucleotides)

GAGATCTGGG GCTGGGGTAT GGATGATGGG GGGGAAGGGCG GTCCGCTCTG CCACTGTCAG GGACCAGCCG GCCAACGCCC
ACCCGNAAAG GTGTCTAAAA ANTNAGCTT TTCACCCACC TGCCCTTTTC TTTCAATCCC ACGCTGTTTC CTTTCAAAGT
TCTGGGAGGA CGAACTCACC GAGGCGAGAA GTNTAACATT

SEQ ID NO:899: (Length of Sequence = 264 Nucleotides)

CTCTGTAAAT TAGCGTTCAT GTTTTCAGCC CCATGCAAAG GCGCAANACN TCAGACAGCG TGGTTCTNIN AACATNAGTG
TGTGGTGCCT CCCAGGAGCA GGGATTNAG CNAGGCTGCT GACACATAAA CACACCCCA CCTCCAGAAG CAGAGGAGAG
GAGCCCAGGG CCAGGGCAGG TAGCTCAGCA AGGACCCAGC ATGCTNCAGG TGGGGCCAGT AAGAGTCACT TCTCCAGCNA
GGTTCAGAGA GGAGAGAGGC AAGA

SEQ ID NO:900: (Length of Sequence = 265 Nucleotides)

GCAAATGGTA AAAAACCAAG TCAGCAGAAG AAATTAGAGG AGAGACCAGT TAATAAATGT AGTGATCAAA TAAAGCTAAA
AAATACCACT GACAAAAAGA ATAATGAAAA TCGAGAGTCT GAAAAGAAAG GACAGAGAAC AAGTACATTT CAAATAAATG
GAAAAGATAA TAAACCCNAA ATATATTTGA NAGGTGAATG CTTGAAGAA ATTTCTGAGA GTAGAGTAGT AAGTGGTAAT
GTTGAACCA AGGTTAATAA TATAA

SEQ ID NO:901: (Length of Sequence = 381 Nucleotides)

CTTCTGTGCA TATAAAGAG AACAGTCTGG NCACTTGAAA ACAGACACCT TCTGGTTTTC AATGIGTTGG TCAAAGTGGC
GATACAGCAA GGTTCGAGG GTGAACACAG TGTCGCACAT GGAACACTTA TATATNATTT TNGGTTCTCC TATCTTGATG

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CCAGGATGCT GTGTGTAGGC GTGGGAATNT GTGCTTGGGG CAGACTTAAA CGCCATTGGA CAAATAGGAC ACTTGTAGAA
GACTTCACAG TGAGAACCTT GAATNTAAGA CTTCAGAGCA GCCACATCAG AGTACACAAC CATTGCAAAT GCACCACATC
GAAAACCAAC TCTCCTCGTG TAGINCAGAC AGTCTTTTGT GCGTGGGGT CTNGGAAGGT G

SEQ ID NO:902: (Length of Sequence = 331 Nucleotides)

GGTGGCCAGT GATCTCCTTT CTTATCACCT ATAGACAGCT TGCCTACAGG AAAAAAGAAA GCCAAACACA GACAAGCAGT
ATGAGATACA ATGAGCGCCC TTGGGCCATT AAAATATGAT TGINTGCCCA AGGTGCGCTG GNTGCAAAC AGCTCTCCAG
AACCTGCAGC CAGCACAGAC CAAAGTCAGG TTGINTCCT CTTCGTGTA TGAACAAAGG TTGATTCCAT ATGTGGCTA
TTGTGAATAG TGGCAGTAAA CATGGCAGTA TTGTATGAAA ATATNACAGA TTAGNCCCTT TAAATATGTG CACTATGGNT
GATCTATCAA A

SEQ ID NO:903: (Length of Sequence = 389 Nucleotides)

AGCAATACTA AACATAAATG TAAATGGGC TAAATGCTCC CAATTAAAAG ACACAGAGTG GCAAGCTAGA TAAGGAACCA
AGAGCCATTG GTATGCTGTC TTCAAGAGAC TCATCTACA TGCAATGACA CACATAGACT CAAAATAATG AGATGGAGGA
ACATTTACCA AGCAAATAGA NAACAACAAA AAATATTTCT AATAGATTTC TGCTTTTAAAT AATGAAATAT GTCAAACCTC
TATAAAAAT ATATGTAGGA AATATAAANG TTTATATATA ATTCAATGTA TGGNTAATAG TAACTGAATA GCTAGTATTG
AATAACCAAG CTTCCTTTTG TTGTTTGN AATTGNGNA ATTGAACATG CTTAAAGGTA TTGGGAAGG

SEQ ID NO:904: (Length of Sequence = 285 Nucleotides)

AAATCAAGGA CCGGTTAGAT AGATGATGGG CTAGGCAGGT GGGGAAGAC AGAGCTCACT GCCCTNIGGG GTCTCTGTGG
GGCCAGCCCC TNATGCCCAT GTGGCCACTN ATGCCAGCT TCCCCAACA CCCCAACACA GGCCAGGTC AATATTACAA
AAGTGAACAA ATGCAACCTG TTTCTGCTTT NACAAATGAC ATGTCTCCAT CCCCGGCCAG CAGGGGTAGG GGAGNGCGT
TGAAAGTGNC ACTCCGGTAA AAAAGGCAAC AACTTTTATA AAATG

SEQ ID NO:905: (Length of Sequence = 374 Nucleotides)

GAAGCAAAAA GTTGAACCTT TTAAGTGCT GAACACAAAT CCAAATCGA ATGGTTCAAG CAGCGTGAA ATCGCTCTTC
ATAAAGTGGG CTTAATTCTC TAGTTTAAAT TCTTTTGATG GAATGAATTA ATTAATGTGT CAGGTGGCTT ATTGTGGAT
GCCATGATTG ATGATGTTCA TTTTAAGCTC TTACCTATAG TACAAGTACA TGATGCTACT GAATATTTTT TCCACTTGGA
AACTGTGAGC TGGGTTGTTG CATTAAAACA CACATACANA CANAATCANN AAACACTGCG GACTTTTCAC TCAAGCTGGG
TCITTTCTTC CCCAGTGGTA AGGGCAAATC CTGGCTTANC TAACCAACAC CCAC

SEQ ID NO:906: (Length of Sequence = 375 Nucleotides)

CTGACTGAAA GGCTCTTTCC AGCTCCAACA CATGAAGGTT CCATAATTTT CCCCAAATGT CTGCGCTCT GAAAACCTCA
ACTATCTTAA TATTTGTGAC ATTTATGCT GTGTATGGCA ATCTGATGGT AAAAGGAGCC ATATGTAAAT AATAACTGAA
ACTTTGTCAA AATAATGTTA AGGAAACATA ATTAGCAAAG CAATATATAA TINCAAGTCC ACTGATTTAG AGAATCAGAA
GTAACANITA GAATCAGAAA TAACAACIAT CTGGCAGGGA TGGAAAAATG AGAGCAGATA TAAAAGGTGT ACCCAACCC
CTGACCCAC TGCCCATTTG GGTGTGCACT ATGINTTTCC AATATTAATA TCTTT

SEQ ID NO:907: (Length of Sequence = 390 Nucleotides)

GTGCTGACTT CAGCAGCCCT CTGAAAGGCC CCTTCCATAA GCTGGGAAAG TATGATCATG GTTTCATCAT CCTTGTGGT
TATTACTTCA AGGTTGACCA ATCTGAAAGC TCTGTGTGAA GAAGGGGACT GAGTGGCTGT GAATGATGAG ACCGTGTGTT
AAAAGCCAGG CTTAGCCTGA GGTCCGAAG AAGCAACCTC AATGCTGTGC TTTACCATAG CACCACCTGC AGGTATCCAG

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GAATAGAGAA CCCAGCTGAG CGACTCATGC TTNACCAAAA ATACCCAGAG CAGTGTGTCT CTACCTTTTT AAGCCCATGC
TCACTAGTGG GGAAACAAT TTTACCCCC TGTATTTAAA TATGGGGATT TCAAGGCAA CAAAAGCATT

SEQ ID NO:908: (Length of Sequence = 207 Nucleotides)

CTTGCATACA GGTGGTAAAT TATTACATTA TTTCTNCCTC CTGTCTACCT GCAGTTGGTT TTATGAGGGG CGTTAGTACA
CTTCCCAAAG GGCTTGCCCG CAGGTTNAGA GGTGCACATT GAACTCCCTC ACCAGGCAGA TGGGAAGTGT GGCCATGAGA
GAGAGCTTCA GGGGNCCTNG GNTTATNACA TCGCTGGGCC AGGANAT

SEQ ID NO:909: (Length of Sequence = 339 Nucleotides)

GCAAGAGAAC CTGATATAAT ATCTATAAAT TTTGATTCCC TGGGGTATAA CAAGTAAATA ATTTTTAAAT GGTGCTTAGC
AAGATTGGTT CATGNAAT GAAGCAATTA TGGCTTGANT TTATAGTAC AATATTTATT GTCTTAATTT TAATTTAAAA
CGAATGACAT GTCTCTTTTT TTAATAAAG TCTTCTTTTA AAGATCTTGT AGTTGATGTG ATGAGCTATG CACTGCTAAA
TATTATCCA CACATAAATA TTTGANAAG AATATGGNAT AGTCATGGGA TGTAGTTTCA TCTCAGTGCT CCATGGAGGG
AGTGTTTTCA CCTCTCT

SEQ ID NO:910: (Length of Sequence = 372 Nucleotides)

CTCAACTGCC ACTCACCTAT CTACCATCCA CTACCCANTN ACCACCCACC ATGACCCACC ATTTGCCATC TACCCATCCA
TCCATTCTAT AAATAATTAG TAAGCACTTA ATGCATGCTA GGTATTATTT TAGGCACCAG TAAGACAATC ATGGGNAAAA
AAGACAGACA ACCCCGACC CTCCCATCCT CAGGGAGCTC TATTCCAGTG AGAACAATCA ATGTGCTAGA TTGTGAAGGT
CATCAGTGCT TGCTGCCCCG GTAAGACTGA GGTCCCAGG CCCGAGGACC AGNCTGGGCC AGGGCTTCCC AGGGGTCTNC
T...GGGGGA CTCTCAGGAG TCCAGCTGCT GCCCCTTAGC TNAGCACTG GG

SEQ ID NO:911: (Length of Sequence = 377 Nucleotides)

GAACTTCAAA AAAAAAATA AAGAGGAGTC ATAATAAATA TTTNACTGTC TAGTCAACC AATTTATGAA GCCTGATTAT
CTAGCTNAGC CTCCGAGAT TGCTACCGGA AATCTCCCCA GATGTTCACC CTCTAACCC AACINTCCAC TGNTGGCAG
GAAGGCAGCC GGGCATCTGC ATTCCGGAAG CCCAGCTGCT TGGGAAGAGA GAGGGAGCGG CTTGCACGTN ACTCAACAGC
CCTGCCTGCT AACCAGTTAA CCAGTTCTCA GTTGGGTTCA CGGACCCATG AGCGACCCAG CTTTCTTCCC CTCAGGTTGA
TATTGTGCTC CAAGCTNGGG GATGCCCCGG GGGACTATGT GGAGGGAGAG TTCCTTA

SEQ ID NO:912: (Length of Sequence = 370 Nucleotides)

ACAATCTACT TGCTACAGAA TCAGGATGTA TTNCCTATT TATAATAAAC TACAGAAGGT AGATTTCAAA GGTAATGGCT
GTTATGGAAA CCTACTTGAG GTGTCTGCT AAAACCAACT CAGTGTGCAA AGCGAAATAC ATTTNCTACT TCAATAGCTC
CTCATACTGC ATCTGTCTGT AGAGTTTATT TCAGTAAAC TGTTTACTAT TTCATGATGA GTAGCTAGAA TTAAAGCATT
AAGTAGCTTG AGAAAATAAT CTATATAAAT CTTTATATCC TACATATGGC TATAAAAATA AATTTATAAT TTAAAAATT
GTTTAAATA AACATTTATT TTTTACCCTA CCAAAGTAAA GGGTATACAG

SEQ ID NO:913: (Length of Sequence = 313 Nucleotides)

GTATCTGGTT GCCACATCCA AGAAGAAGC GTGCNINTCG CTGGTCTTTN CTTTCTCTA TAAGGTGGTG CAGGINTTTT
CCGAGTACTT CAAGGAGCTG GAGGAGGAGA GCATCCGGA CAACTTTNTT ATCATCTACG AGCTGCTGGA CGAGCTCATG
GACTTCGGCT ACCCCAGAC CACCGACAGC AAGATCCTGC AGGAGTACAT CACTCAGGAA GGCCACAAGC TGGAAACAGG
GGCCCCGGG CCACCAGCCA CCGTACCAA CGCGGTGTCC TGGNGTNCG AAGGCATCAA GTATCGGAAG AAT

SEQ ID NO:914: (Length of Sequence = 389 Nucleotides)

TTACAGGCGC CTGCCACCAT GCCCGGCTAA TTTTNAGTAG AGATGAGGTT TCACCATGTT GGCCAGGCTG GTCTCAAACCT
CCTGACCTCT GGTGATCTGC CCACCTCAGC CTCCTCAAAGT GTGGGGATTA CAGGCGTGAG CGACCGTGCC TGGCCTTCTC
CACTGTTTTT ATAGTGAAGA AAGGACACCC AAATTTTGAT CTGGTTCAGC TATTCATAT TCTATCCTGT GTGGTCTTAA
GCAAGTTACA TAACTTGCCT ATATCTCAGT TTAATTAGCT ATAATATAAA TTAAATGGT CAAATGTTCT CTAAAGTCTT
ACTAGTTACC AGTGTTCAT GGGCCCAACA GCATCTACAT TACCTGAGGA GGCTGGTAGG AAATGCAGG

SEQ ID NO:915: (Length of Sequence = 328 Nucleotides)

CNCCAGCAGA TTTTNATTAG ATGGAAGATA ACAAGCATTA CCNCATAGGT AAGTGGTAAG AAATGGCAAG TACAGCCAAG
CCACAGAGGA GTGAGGACAT TACTGGCTAT GGAATGGGT ACTTATGAAA TCTAAGGGTT GGGTCTCCTG ATGAACCTTA
ACTACCCAGT AAGCTCTTCT CTTTGGCACT CAATATGACC NCTGCTGGCA TGAAAGGGNC TACAGTAGCT ACTTTCAACT
TGGCCAACAG TTCTTCCAGT TCTGGTCGAG CTTTGAATCG TCCCTTTGAA GTCTTCTTC AGNTGGTGCT CCTTCAACTT
GACAAGTC

SEQ ID NO:916: (Length of Sequence = 365 Nucleotides)

CAACTTCAAG GTGCTGCAAG AGCTTTCAG AAGATGGGTG TTGACAAAAT CATTCTGTGA GAGAAATTAG TGAAAGGAAA
ATTCCAAGAT AATTTTINAGT TTATTCAGTG GTTTAAGAAA TTNITTGACG CAAACTATGA TGAAAGGAT TACAACCTC
TNCITGGCGG GCAGGGCCAG GACGTAGCGC CACCTCTTAA CCCAGTTCCA CAGAGGACGT CCCCCACAG CCCAAAAAC
ATGCAGACCT CTGGCCGGCT GAGCAATGTG GCCCCCCT GCATTCTCG GAAGANCTCT CCATCAGCCC GAAATGGCGG
CCATGAGACT TGATGCCCAA ATTCTTTGAA CTCAAACCA CAGCT

SEQ ID NO:917: (Length of Sequence = 400 Nucleotides)

GCATTATTA TTGAAACTA TGTATTTTT TGTAATAACC TGATCACATA GAGAATATCA GTGGCTATAC CCTCTCTGGG
CATCAGTTT CTCTCTGTGA AAGTGGGAT AATCACAGCC CCCACCACAG TGGGCTTCAG GGAGGAATAA ATGCATTAAC
ACATGGCAAG TCAATTAGGA CGGTGCCTGA CAGGCTGTCA GCGCCCAAGG TTGTGACTTT TGCTTTTCTT ATTGCTACTC
TGCAACCAAC TTTAGATAGT GGTAGANTAA TCAGGAGGCC CTCTTGAATG GGATATTTTG CACAGAAGAG GTCCAGAGCC
GAGTGTGTGT GACATGGGAG CAGAAGACCC GGGGTTTINAG CCAGGCTCTG CCACTCATA GGTGTACAAT TTTCAAAGGG

SEQ ID NO:918: (Length of Sequence = 348 Nucleotides)

CTATTGCACA TGGTAACTCT GTCATACATC TATAAGCCT AGTAGCTGTA TTGGGTGAGA TGAAAAAAC TGCTTATATT
CCACAGCAAC ATAATTACAA ATAAGTTTTA ACCTATTAAA GTACAGAGTC TCTCTCATCA CTTTCAAAGC AGGACCTTAC
TTACCAATAA TTCATAGCAT ACCTCCCTT ATTTTAAAC TCATATGATA GCTGATTTC TAACTGTAGC AATCAGGATT
CTTAGAAAGA TTCGAACTG AATTAGCTA ACTAAGGAAG CGGATTCAT TAAAAATATT GGGTTAGTTT ACAGGAATCA
GTAGTGGAGG AACCAGGGT GCATAAAA

SEQ ID NO:919: (Length of Sequence = 345 Nucleotides)

GGGATGACTT TAAACGAGAG CTGGACAGTA TTAATCCAGA AGTCCTTCCT GGGTGGAAG GAATGAGTGT TTCANACTTA
GCTGACAAGC TCTCTACTGA TGATCTGAAC TCCTCATTTG CTCATGCACA TCGTCGTATT GATCAGCTGA ACAGAGAGCT
GGCAGAACAG AAGGCCACCG AAAAGCAGCA CATCACGTTA GCCTTGGAGA AACAAAAGCT GGAAGAAAAG CGGGCATTTG
ACTCTGCACT AGCAAAAGCA TTAGAACATC ACAGAAGTGA AATNCAGGCT TGAACAGGAC AGAAAAGATA GAAGGAAGTC
AGAGGATNCC ATGGGAAAAT GAAAT

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SEQ ID NO:920: (Length of Sequence = 299 Nucleotides)

CCCAGGTACT CAGGGAAGGG GCAGGAGAAC CACTTGAGCC AAGGAGTTCA AGGCTGCAGT GAGCTGTGAT CACACCACTG
 CATTCCAGCC AGGACAACAG AGTGACATCC TGTCTCAAAA ATAAATAANT TTTTAAATGA TGAAACTAAC TAAGGTACTG
 AGGAGGTAAG ATATTTCCCC ACGGTAAGTC ATTCAGAAAC TAAATGTGAA AAACCAAAAG AAGCCTCTGG GGTTAGTATT
 CCCAGTCTCC TTGTCTGCCC AGGACCCAC ATTTGTGTAA GTTGCTAATT GCACAAGGG

SEQ ID NO:921: (Length of Sequence = 234 Nucleotides)

ATGAAGCAGA GGCAACCAAC AGAAATTGAC ATCAGAAACT CTGCTGGNTC CCCACCAGCA TGCTACCGAT GANTCCTGCT
 CTCTTTCAGA TGAAATTTTA TTTTITINCC AATAAGGCCA GCCCTACCCT GGAATCTGGA ACCANTCTG GCCCAGGGTA
 GAAAGGCTAC CAAGCACCTA TGGTAGAAGC CCTGGTGTCC AGGATGCCT TGGNCCTTAT TATTGACCTT CTCT

SEQ ID NO:922: (Length of Sequence = 328 Nucleotides)

TAGCAGGGTT ACTGCGCTTG GCTGCGGCCA AGGGAAGACT CTGCAGGCC TATTACTTGG CGGCCTTTAA CTCTTATAGA
 ATTGGGAGAG AACACTGACA AAAGCGAGGA CATGATTTIN CGGTACAAA TNATTTCTCT TGCTTGCTTT CTCTCACCC
 TTTTNAATTT TCCTTTCTIN CTITTCCTGT CTATCTTACC TTCCCTCCGT GATCCCTGCC AGCCCTCCT TTCTTATTAT
 AGCTGATCAT GGCAGTATTG TTTTITINCTG GGTAAAAATC AGAGTGGGAT TTAGAGAAAG CTTAGCAGGC CTAGCATGAG
 GGCCTTAG

SEQ ID NO:923: (Length of Sequence = 371 Nucleotides)

CAGGAAACCT ACTGTGAAAA TGCAGAAAA CAACAGCAA AATTGATTGT TGACTCAATA TGATATATAG TTCAAATGTA
 AACAAATGCT TGTNAGCATT CCACATCACT GAAGGAAAAA AAGTAAGTTA TTATTTCCAA TGTTGGGAGT TAGGTTGCTA
 TAAGCTTATG ANCACACACT TTCAGTGAAT TTATGTAGAA TCGGAAGCAC TTCATTCTCC CCTCACCACA CATCACCCCC
 TTGCTCCTCC TCGACACGTG CAAAATGATA GGGCATGTA GGGGTTGTAG TGAAATNGAG AAGGCATGCC CCATCTCAAG
 AACAGGGTG GACCAGCCAC AGCTTTCAGC TCCANTTGT GATACAGGAA T

SEQ ID NO:924: (Length of Sequence = 371 Nucleotides)

ATGATCTGCT TTTTTTIGAT ACCTTTACTT TINAG AGNGCGGGG TTTCTGGAGC CGACTGAGGG ACTGGAGAAG
 GCTACGGGGG TCCTCGCCCT GCCAGGGCAA TCCTT CTCTTATCA TTGGTTATG CAAATCGCGG TAAAGTTTTT
 CGAAGGGG TGCTGGCTCC TCTTGGCAGC TCTCTTGT GACITTTGGC ACCAGGGCTG CTCATACCTG CAGCCTTTTC
 GGCCCTCTNG GCCCGCAGGC GTCCGGCTC CGAAGCACT GCCATGGCCC GGAATAGCAG CCCNGAGCA AGG

SEQ ID NO:925: (Length of Sequence = 317 Nucleotides)

AATGCTTTAT GATCAACTTG CCATAGGACT GATGGATTAA CCAGTGTTCG GCTTTATTTG AAGTCTATGC CCTGCACAGC
 TCTTGTATGT ATTINAGATG CTAGAAGTTT TTINAGCATG TNATGTGTGA TTCTTGTITG AATCTAGGN ACCTGTGCCA
 ACTTGGTTCT TTTTCAAGGT TGTTTGGGT ATTCTGGGTC CCTTGTCTTT CCATATGNAT TTNAGGATCA GCTTGTCAAT
 ATCTGCAAAA AAAAAATCAG CTATATTTTG ATAGAGNTT GTATTGCATC TTTAGGANIG GTTTGTGAG TATTGCC

SEQ ID NO:926: (Length of Sequence = 247 Nucleotides)

GTTATTCATA CCACAGCATT TAAAAAGCAA TCCGCAAGTN ATAAAAAAA AAAAAAAA ATGATGTGAC ATATCCATTG
 CCTGANITGC CTCTTTTGTA AGCCAGINTT GGGATTATAG CAGAGGAGTA GCAGAAATAA NTATATTACG ACACAAACAT
 ATAGATATAA TAATATCCAA CCNCTTTATA TGATTTAGGG TCTCGTTAAA ATGGTTACCA TTGCTTCTC CTAAANITA
 TATAAT

SEQ ID NO:927: (Length of Sequence = 286 Nucleotides)

GGCTGTCTAG AGAATCACTT GAACCCGGGA GGCGGAGGTT GCAGTGAAGT GAGATCATGG CACTGCACCC TAGCCTAGGT
GACACAGCAC AAAAAAANC AATGTTCCAC AAGTCAAAA TTGINTTCAG GGAGTAGAAA AGTAGTAGGC TAGGTATCAA
AGGGTATGAA TGACTAAGTT CCTTCTATAA TATATTGACT ATAGGTTAGG AGATACACTT TCAGTTCTG TTTTNGTAG
ATCTCCCAAT GATCTGTCTT TTAAGAGTAC ACACGATGAG TGGAAA

SEQ ID NO:928: (Length of Sequence = 349 Nucleotides)

CTTGTTTAAAC CAGTATTTAT TGCACATGGT TTTGTTATCT ATTGCAATGG GTAAATTACC CCATCTTTG CTCTTTAAAG
CATTAGACAT TTCTGTAGGT TAAGAATTCA GAAGCAGCTT AGCTGAGCAG TTCTTGCTCA AGGTCTGTCA TGAGGTTGCA
GTCAAGGAGC TGGCCAGGGC TGCACTATC TGAAGGCTG ATTGGGGCTG GAAGACTCCC TTCCAGATG GCTCCCTCAC
AGGCTTGGCA TGTCAAAGCT GGATTGTTGG CAGGGGACCT CCATCTTCC CCACATGGGC ATCTCCATAG GCTGTTTGAC
ATGGCAGATN GCTTCTCCA GCAACTGGG

SEQ ID NO:929: (Length of Sequence = 395 Nucleotides)

AGAGGAGGCA GCAGCCACCC CCAAGAAGAC TGTACCTAAA AAGCAAGTTG TGGCCAAGGC CCCAGTGAAA GCAGCTACCA
CCCCACCCG GAAGGTTCT AGCAGTGAAG ATTCTCCAG TGACGAGGAA GAGGAGCAA AAAAAACCAT GAAAAATAAA
CCAGGTCCCT ACAGTTCAGT CCCCCGCT TCTGCTCCCC CACCAAAGAA GTCTCTGGGA ACCCAGCTC CCAAGAAGGC
TGTGGAGAAG CAGCAGCTN TGGAAAGCAG TTAAGACAGC AGTGTAGT CTGATTCAAG TTCTGAAGAA GAGGAAGGAA
ACCCCAACT AAGGSCAGTA GTCTCTAAG CAACCACTAA ACCACCTCA GCAAGAAAG CAGCAGAGAG CTCTT

SEQ ID NO:930: (Length of Sequence = 214 Nucleotides)

ATCCAACAAT GACAATCTCT CTTCGGACAA TATTGGCACT CCATTCAAAC CTGTGTTTCA GTGAGTCCGC ACTTCATCAT
CTCCCAATTT GTCCAAACA TACTGTAGCT CAAGTACAGT TTTTAAAGT TTCTGTCAG CTCTTCTCT CATAAGCTGC
TCCGACGTG CTGTCTCTT NATTGTTTC TGAATATCTT GACTTAGTGC CATG

SEQ ID NO:931: (Length of Sequence = 245 Nucleotides)

GAAAGTNTC ACAACATGA TGCTTATCTA ATAAATATC ACTGAGCAAT AAGGAGAAAT ATTTTAAATA GATTGAAGT
TGTAACAAA TAATTTAGAG TCCAAAGAGG ANAAGANAA TTAATCTGT TTTTATCCC TAGAAGTCAAG AAATTTTACT
GGATTGGTCA ACAAGACAA ACTTTTTATT GTATAAACA GTAGANTTCA TGGAAAGGAT AATNCTTTTG GAACAGGCTT
CTCGG

SEQ ID NO:932: (Length of Sequence = 303 Nucleotides)

CATATTGGGG GCCAATATA AAGCAAAGCT GGAAGAAGGG ATGATCCATG TATTINIGGG GATGGGATAT GGACAGGGAA
ATAGTGTCC AACTCCATGC TGAGTGTGT TTTGAATTGT AATGTGAAGT TGCCACCATA CCAGGGCTAT GACTGTINTAC
GATGTCTCAC CCTGTAGGC TAGTAGCTT GCAGTGGGAA AAGATGACAG GGCCACTGT CCAGGGCATT CAGGTAATAA
AGTCCCTGAG CTCCAAGTTG CTAGATCTAA GGAAGTATT TTCCCTTCAT GTCAAAGATG GGG

SEQ ID NO:933: (Length of Sequence = 186 Nucleotides)

CTCTTTTGGG CTGTTTANA TCTCCGGCGA ATTGAAAGCA GTGATCTCTC AGGTGCTAAC CGGNATAGTA TTAGAAGACT
CCAATATCTT GCAGCTGTG GGACTTACTG TATTTATCTT TGTTTGTGT CATTTGCTTT TGGGTTCTTG GTCATGAGGT
TTTGCTAAG CCAAGTCTT CAAGGG

SEQ ID NO:934: (Length of Sequence = 336 Nucleotides)

GGGAAAACGT ATCAGCACAT GAAATACCTT GTAACATTTT CATTATATATA ATTTGCTACG TGTTCTTTGC AACATAGTGA
 AAAATAATCA TGCTGTATGT TTAGTAGGCA CATAATAAAT AGTAATGGAA TGAATGGTTG TATATTAGA GAGCCATGCT
 GAAAGGTTAA ATAGCAAAAT ATGACTACTT GGAGAATAAT GTTAAATTGT CAAGGAGAGT AGTGTATAT GAATACTCAG
 ATGGATGGAT ATATAGANAA TGAGAAAAGC GACAGAAGGA ACTTAAAGAG NTTTTAAAA TAGCTTTGTC TAAAGATTAA
 AAATTAAAGG TTCTAA

SEQ ID NO:935: (Length of Sequence = 383 Nucleotides)

AGGTAAGAAA ACTGCTGAGT GGGCTCCTTG TACCAGCACC AACCAGCAGC CCTTGACAGC ATAGATGGGA TGAGTGTAAAG
 GGCTATCCTT AGCATAAGGG AAAGACGGTT ATAAGCTGAG AAGATTGAAA GAAGAATGGA GCCACAAAGA GAATAGCATA
 AATAACAAGA AGGAAACATG AAGAACAAGC ACTTAAGNTA TTAACTTTCA GTCTTTCTCC ATTTCTTGAT GTCTAATGAG
 GCAAAATAAC TGGGCAAGGA CCACCAAGAT GAAGAAGTTA AATAAAATGT CACAATGAAA TTNAGGTGCA ATAATACAAC
 TGTGACTGA CTTTCCAAAA CCACGGTGAT CGGTAGAGTA TCATCAATGT TACCGAGGAT TTT

SEQ ID NO:936: (Length of Sequence = 204 Nucleotides)

GAAGCTGTGC CACCTTCTIN AACTTINATG AGCTGCCINA GCCGCCAGCC ACCTTCTGTN ACCCAGAGGA AGTGAAGGG
 GAGCCCTGG ATGCCCCCA NACCCCACT CTGCCCTCAG CCCTTGAGGA GCTGGAGCAA GAGCAGGAGC CGGAGCCCCA
 CCTGCTAACC AATNGCGAGA CCACCCAGAA GGAGGGGACC CAGG

SEQ ID NO:937: (Length of Sequence = 386 Nucleotides)

CTAACTAAAT AAGGGTGGC AGATAAAGTA CAGAAGGCC AGTTAACTT GAAATGCATA TGANCAAGAA ATATATTINA
 GTATGANIAT GTCTCATGCA ATATTGGGA CATATTATG CTAAAGAAAG TATTCACAGT TTINCCAACA TTCAAATTGG
 AATGAGTGTG CTGTATTTIN ATTTGCTAAA ATGGGCAACC CTAAGCTGGT ATCTCTACAG TTACATACAC TTACCAACCC
 CACCCATTCA TACTGGTCCA AGTTACACCC CAAAAGAGGG CAGAAACAGA ATCTGAACAA GCTCAAGTTT NGAGGGCAAA
 AATGTTTCAT TCTGCCITCT GGATINCTGT ATGAAGACTT TIGTTGIGAA AGATATGAAT AGAACC

SEQ ID NO:938: (Length of Sequence = 349 Nucleotides)

GACACTTTCA GAATTAAGAA GCCTTGCCCT CTTGCGTGT CTTACAATT GINTTAAGTC TATTATAGTA TTCAITTTAG
 TTTGAAAGCA ATAAATACAA TATTAGTACA AGCACACTGT CAAGAAATCC CTAGAATATG GCTCCTCTGA AGGTTGACAT
 GGGTCTGCTT CGCATGTATC TTTCATCTC CAGCATCCAG ATCAGAGTCA ACAACAACAA CTCTACAAAT ATCAGGCTTC
 TIGGTGGAAA GAAATCTGGA CATTTTINCT ATGAAAAAAA AGTTAGGTTA CATGGCATT AATATTTTGC TAGACTTAAC
 CTACAGAAAA TGTTTCAAGC TTATAAAAA

SEQ ID NO:939: (Length of Sequence = 374 Nucleotides)

GAAATAAAGC CTCACAAGAA ATAAGGTGCT TATGGTGTGA AGTTACAATG GAAAATAATC AATGGCATTG GTATGCATGC
 TGCATGTGTG ATGTAGATCA GTTCATAGGA GATGGGGCAA CAAATAAATA TCACCATGGG GATGTGATCA TCAAAACCCA
 GGCTGTGGAA AACTGTCTAGT CAAGTTTCTT CAACATATTG CAAGAAAAAT ATGATGGCTT GAAATCTAT AGATGAAGCA
 ATTTAACAAA CCTACCAATC TCATTTAATC TTGATTACTT TTAATAAAG ATTAAAAAGA TGACAGAGAA AGGGTTTAAA
 AATTTGTAAAG ACACGGCTGG ACGCGTGGC TCACACCTGT AATCCAGCA CTTT

SEQ ID NO:940: (Length of Sequence = 385 Nucleotides)

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GTAATCCAG CTACTGGGA GGCTGAGGCA TGAGAATTTC TTGAACCCGG GAGGCGGAGG TTGCAGTGAG CAGAGATCAC
 GCCACTGCAC TCCAGCCTGG GCAACAGAGC GAGACCCTGT NTCAAAAACA ACAAATATAA TTTCCTTTTA ACATCTGTNC
 CAAAAATGAG ATAAGCGTTA TCAGGGCAAG TCCATCCTCA TCACTCTTTC CCTCCCCACT GCOCTCTCCA CGATGCCAG
 CTGATCAAAA GTCATTTTTA CTCATAAGAC CAAAGTATCA TGGGATACTG TGCAGTINGA GAGCAGGTG ANCATCAGAA
 ATAATTGCTG ACAATAAAGT AAAAGATGGG AGAAAAGCAA GGCCNATTGT ATATAATACA GCTTC

SEQ ID NO:941: (Length of Sequence = 406 Nucleotides)

GGTAACAGGT TTTTACCAAC AATTGCTTGT AGCTAATGTA GAACATACTT GAGAAAATGG CTTCTGTGAA AGACCAGTTA
 GTACCAAAAT AATCTGGCCC AGAAAAATAG CCACCATTCT TGAATACATT AATAGAAATA GAATAACCC CAAAGGGAGA
 TGAGAAGCAT TCTAAAGTGC ACTGATCATG AGTTTCTATG TGATGATTG TGTCCATTG GAGCTCCAGT GCTTTAAAGC
 TGAAATGAAT CCTGGCCTTT CACCACCCTC CCTGCCATA GTATGGTATA TCCTCTTATT CCTTCCCTCT TAGCTTACTG
 AGAGTGTAAT TTCCAACCAG TTAAGGCCAA AGAGGACTAT TTTCTAGGAA AGGAGAGAGA GATGAATTAG CAGTTAATGG
 AGGAGT

SEQ ID NO:942: (Length of Sequence = 296 Nucleotides)

GATGGCTCAT GCTAGTTCAG CAAATATTGG GCCCTCCTG GAGAAGAGAG GCTGTATCTC CATGCCAGAG CAGAAGTCAG
 CATCCGGTAT TGTAGCTGTC CCTTTCAGCG AATGGCTCCT TGAAGCAAA CCTGCCANTG GTTATCAAGC TCCTTACATA
 CCCAGCACCG ACCCCAGGA CTGGCTTACC CAAAAGCAGA CCTTGGNGAA CAGTCAGACT TCTTCCAGAG CCTGCAATTT
 CTTCAATAAT GTCGGGGAA ACCTAAAGGG CTTAGAAAAC TTGGCTCCTC AAGAGT

SEQ ID NO:943: (Length of Sequence = 223 Nucleotides)

GTGCCATTAC AACTTNTCTG TAACCCTGAA ATTGTGTCAA AGTGAAAATT TTTTAAATGA GATTATAAGA GCATAATCAA
 ATTGGAATTT CCTTAGGATA CCAGAGAATC ATTTCCTCT CAGGTAAAGG ANTTTTCCTT TTINGTAGTCC AGAGCTATAC
 ATGATTAGA AANTGTTCAG NCCAGGAAGA TGACATCTCT GCTAACCTAA TCGATTATCA TGG

SEQ ID NO:944: (Length of Sequence = 327 Nucleotides)

CCAGGCACTC AGGCTGGCTG TCCCTTTNNT CCTCCTGCCC ACCCATCCA CTCTGAGCAT CAATGCAGCC GGCCAGTTGC
 AGGCAACCAG GCAGCACCTT GGCTGCCAG GCAGGCTAAG AGGCCCCAC CCACTCCCC CTCTTTGCC AGTGGAAAAG
 CTGCGGTAG GCATAGCTTT CCCAGCCTTC CTGCTTCAN AGGCAGGAGC ATGGCACTCT GGGAGTTGTA GTGCTCATAA
 CACTCAGGCG ATCCCTTGTG CAAATAACTG GAGGAGAGGA CTATGGTATT GGGGAAGAGA AATTNAGGAA TAAGCAAGGA
 GTTGGCT

SEQ ID NO:945: (Length of Sequence = 222 Nucleotides)

CITAAACAAT AATACACCT GAGTTAGTTT TCCAAACCTT TCCTCCTGAT TAAATGCCCT TAAACTTAA ATCTCTTGT
 ATCTTCAGTT GTGATCTAGT CCCAAGTGA AATTACGTTT AGCTTTAAAA CCATGAATTT AAAGCTCAAG CCTGTAGCTG
 GCTGCCTAGG CANTTTATGA TTAGTTTCAC AGAATAGCAC CCACTGGCTA CACAGNCCC AG

SEQ ID NO:946: (Length of Sequence = 286 Nucleotides)

GCTCTCTCTA CCCCTCATC TAGGTATGTA TATAGTTCAT TTATTTAGGG GTGATGTAA AAAATTGAAT GCCCTTAATG
 GCAAGGGAAC CAACCAATCA ATGTGGATGC CACAACCTTT TCCCTGTG ACTGTGTGTA TTGGTATGGA AGTATTTTTT
 TTTTCTCCCA GCTTTTATT CAGGTTCAG GGATACATAT GCAGGTTTGT NACATGGGTA AATTGCATAT TGTAGGGGTT
 TAGTATACAG GTTATTTTAT CACCCAGGNA ATAAGCGTAG TACCTG

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SEQ ID NO:947: (Length of Sequence = 335 Nucleotides)

GGAGGTGCAT TTNCTCCCCC TTGAAAGAT TTATGTAGAT TCCTAAAAGA AAATTCAGAA TATGGAGTAG CTCCTGANTG
 GGGAGATGTT GTTAAGCAAT CTGGATTCTT TCCAGAAAGC ATGTATGANC GTATTCTCAC TGGTCCCGTT GTGAGAGAGG
 AAGTAAGCAG GCGGGGGAGA CGGCCTAAAA GTGGAATTGC AAAGGNCACA GCAGCAGCAG CTCTGCAATC TGCCACCAGT
 GTTTCAGGCA ATCCTTTTGT TTAAGCCAAT GGACCTACTT CCAGGGNGTG GGNCTCACA AACTTNTTTC AGGGCCTTAC
 AACAAAAACC TACAA

SEQ ID NO:948: (Length of Sequence = 216 Nucleotides)

GGATGTAAGC TCCAGACAG ACATCTCGGG AAGCTTCGGC ATCAACAGCA ACANTCAGTT GGCAGAGAAG GTCAGATTGC
 NCCTTCNATA TGAAGAGGCT AAGAGAAGGT TCGCCAACCT GAAGATCCAG CTGGCCAAGC TTGACAGTNA GGCCTGGCCT
 GGGGTGCTGG ACTCANAGAG GGACCGGNTG ATCCTTATCA ACGAGAAGGA GGAGCT

SEQ ID NO:949: (Length of Sequence = 369 Nucleotides)

CCCTTCCTCA AAAGATAAAA ATCTCTGGCA GAAGAAATAG TTACCTGCTG CCATCCATCA GTACTGCAAT TACCATGACT
 CTAAGTGACC TTCTTGCCCA ATGTTTAATG CACAATGGAC CGTGCCCGAG GAGACCTGGG CATTNICTGT TGCTTTGTTT
 TACAATGATC CCTTCTGTTT TAGCAGCGTG ATTCACCTGAT GGTCACTCTC TCTGAGGACT GTACGCATTT TCACCTTATA
 TCCACCTGTA CCAGAAAAACA TGGACATAAT TTAAAGTTTA TTCTACTTA ATAGAGTGAT ATTCCAACCT GTGTGGGAAA
 ATAACCATIN GTCACTCTTT AAAGGAATGG TATTTAACAT TTATTTATA

SEQ ID NO:950: (Length of Sequence = 288 Nucleotides)

AATGGTGAAA TAGAAGTCCA ATTACCTGGG GAACTTTCAT CTTAACCCCTC TGGAAATTTC AGTCTAACCT AAATATTGAT
 ACTACACCTG CAGCAGCAAT TAGTTTAGCA TGTAGTGAAA AAGTAAGTCT AAAAAATATT TNCATAATCT TTGGTTCCCTA
 AAATTGTTTT AAAAGAGATG CAGTGACATA TGTCTGGAGT TTGCTTATGG CCAATAGGTT AATGCTTCTA GCTTCTATGC
 TTATTGCAA TTTTAATTAT GTGAATATGC AATTTTCACT TATATTTG

SEQ ID NO:951: (Length of Sequence = 302 Nucleotides)

TGTACGATG TTACAAGAAC GATTCCGGGA GTTTNCCCGA NACACCGGGA ACATTGGGCA GGAGCGCGTG GACACGGTCA
 ATCACCTGGC AGATGAGCTC ATCAACTCTG GACATTGAGA TGCCGCCACC ATCGCTGAAT GGAAGGATGG CCTCAATGAA
 GCCTGGGCGG ACCTCCTGNN GTCATTGAC ACAAGAACAC AGATTCTTGC CGCTTCCTAT GAAGTGACA AGTTTTACCA
 CGATGCCAAG GAGATCTTTG GGCGTATACA GGNCAACAC AAGAACTINC CTTGAGGAGC TT

SEQ ID NO:952: (Length of Sequence = 302 Nucleotides)

TTTTTTTINT CCACCTCACA GTTGATGCCA ACCCAGCCTG CATCACAGAG ACCTTATAT CCACTGAGAC CTCCAGTACA
 GTTCCATGG ATGCAGGGAT TGCNCAGGCA TTCGTTACCC TGTAAGTAGC AGCTGGGGTG ATGGGGTCCC TGGGGGCATA
 TACAGCGGAA ACCATTGACA CCGTTGATAC ATGNGCACC CTTGCGACAG GGATTGGNGG CACACTCATC AATGTCAATG
 TTACATCTCT GGCTGTGAA ATCCTGGTGA GCAGACACAA CTGTAGCGAT TAATTGCCAT CC

SEQ ID NO:953: (Length of Sequence = 301 Nucleotides)

GAAAATNAAC TTGTTTGAA AAGTTAGTAT GGGTTAGAAA TGGGAAGAAA ATCTAAAATG TAAGAGTAAA AGCAAGGCCT
 TCATGGCAIT CTCITTTAAT ATGGGCTTIN CTGTGTAGT TAACATCTGA TAATATGACC CCCCATCTA TTAATATTTA
 TTATACTCAT AAAATTACAG AAAAAACCTA AGAAAGGGTA TGTATTGAAG TGAATGAAT AAATGCAAAA AATGTAGTAC

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TTATAACATT TTGAAGAAAA TCTTTAAAAA TNITTGTTA CACAGAAAAT AATCTTAGAA A

SEQ ID NO:954: (Length of Sequence = 217 Nucleotides)

AGAGCTTAAA AATAGTGAAG TCTTTATAAG TAATTTTAA AAATTTAAAC TAGGACCATA AATTTCTAAA CTATGAGATA
AATGANCAAG AAAACAAACA GGTGTTTAGG AAAAGGTATG TATATGGTCA ATGAAATAAA TACAACGTGA TTTTAAATGA
GANTTAACAT ATTTTNNITT AACAAAAGCA GCATGTAACA CACAATGIAT TATATGT

SEQ ID NO:955: (Length of Sequence = 260 Nucleotides)

TATTTGATAG AATTTTCTAG TGAAACCATC CTGACTGGG GTTTTATTTT GGAGGAATTT TAAGTTATTA ATTCCGTCTC
CTTAATAGTG ATAGGACTAT TCAGATTACC TTATTTTATA TTGGTGAGT TTTGGTAGCT TGTGTTTCTC AAGGAAGTGA
TCCATTTTCT CTAAGTGGC AAATTTATGT GTGTATAATA ATTTGTAGTA TTCNGTATT ATCCNTTGA TGTCTGTAGG
GTCTCTAGTG ATATCCTATG

SEQ ID NO:956: (Length of Sequence = 216 Nucleotides)

CCCTATTAAA TCATTAAGCA TIGCATGCAA TACTTTTNCCT GTGAAAATTA TTAACCTCCT GGTATATAAA ATTATTTCTA
GTTATGTTTA AATATTTCCN CTGGGATATT ATCATCTTAG ATCTGTAAAG TGGTACTAAA ATAGTTAAAA ATTATTTNTA
AGATATACAC AAACAGAAAA ATATAAAANC AAATGTATCT TATACATAGT ACTTGG

SEQ ID NO:957: (Length of Sequence = 353 Nucleotides)

TATGTACCAG GTGTGGAGCC TAGAACAGAC ACCAGTCAGA AGTGCCAGATA AGGTCTGACT TTCCAGCATA GCCAGGGGAC
TTGGCTGACT CCACATGTCC CCAGGCCCTTA CCTAGCTGTA AAGCAGGCAG GTTGTGAAGT CATAGTGGCA GTTTATGAAA
TATTTAGGGG ACCTAATAAT CTTTAAATTG TATAACATTT CTGTCATAAA TTTCCCTTTCA TGAATCCTTT CATGACTTAG
ACCATCTATG ACATGCTTGG ACTTTCTGAC TTGTCCTAAC CACCCCTCTC TTTAAACAAC CAGTCTTTTT ACTTTAGGAC
AAGAATTTAC CATACAAGAT TCTTTTGTAT AAA

SEQ ID NO:958: (Length of Sequence = 410 Nucleotides)

AAGGAAATGA ATTTGATAGC AGATTGTIAG AGATTAAATTA CCTATCATAT GCCAAAGCCA CTTCCTACAT GTCAGTGCTA
AGGAATCCCC TAGAGATGGA ATTCTTAGGT TCAACTGAAA ATTAATGTGA ATTAATATAA TAGGTAAATT CATTGTAAAT
ATTTTAAAGC CTTTGGCAA TGAGTTAATT CCACAAGATC CACATTGCTT GAAGTGTAC AGAGAACACT TGATGAGAAT
GINCTAGTAA TAAACCTTAA CCTCTGGGG AAAAAATCCT ACTGTCTTTC CTCTCTGCTT CGTTCTTCTT GGAACATATT
TNGGTGGCAT TTGGATATCT GGAGGACAAA GGGATCCCTA CAAGGTGGNT GCATAAACAT GCGTGGGCCC AGATGGACTG
TGCTCATTTG

SEQ ID NO:959: (Length of Sequence = 197 Nucleotides)

GCCCGCGGAC CGTAGCATCT TCTGGACCAC AAAATAGAAC ATTGCCAGGC AAGGCAGGC ATTTGGGGAA TTTNAGAGAA
AGCAGGATGA GTGATGGAAT TGGGAGGGTG GCACAAGATG TTAACAGCA TATCTTAGTC CTCATCTAGG GTATAAAACA
GGACCCATGG ACTCTAGCAT CCTGGAATGA CAGAGGG

SEQ ID NO:960: (Length of Sequence = 345 Nucleotides)

AATAAACTTC TGTGTGTTTA AGCCACCTAG TTGTGGTCAC TTGTTATGGC AGCCTTTGGA AACCACACA CCGGCACATG
GCGTGTGTTAA CGCAGGCTGA TACAACCTTA AGAAAGGAAT GNGTGTGGTC ATCAGCAATC TCCAATACCT ACAGCAAATG

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GGAAGACAGG GAAGGACCAG AGGTGTAGGT AAAGCAAAAA GCCACAGGTC ATTAGGAAGT GATGCTCCAA CTGGGCATGG
AAAAGGAGTT TGGAGTTAGG AACACGACAG ATCTGTCTGG ACAAGGNTCC AGATCTCTCC TAGGGGAAG NAGGGGCAAC
TTAGGACAGT TTTTGTGTCT GTGGG

SEQ ID NO:961: (Length of Sequence = 327 Nucleotides)

GCTGAAGAGG AACATGTGTC CTCGGCCACT TCAATCACTG AGTGTGACAA ACTTCTCTCC TTGCCACAT CAGTGGGTGA
GGACCAATCT NTGGCCTCAC TTACAGCTCC CCAGACAGAG GAGACAGGCA AGAGCTCCCT GCTGCTTGAC ACAGTCACAA
GCATOCCTTC CTCCCGTACT GAAGCTACGC AGGGCTTGA CTATGTGCCA TCAGCTGGTA CCATCTCACC CACCTCCTCA
CTGGAAGAAG ACAAGGGCTT CAAATCACC CCCTGTGAGG ACTTCTCTGT GACTTGGGAG TCAGAGAAGA GAGGAGAGAT
CATAGGG

SEQ ID NO:962: (Length of Sequence = 369 Nucleotides)

AATTTAGATT TGCAAGTTTT CTACATTTTC AAAAAACAAA AACAAAAAAA CAAAAACAA ACAACAAGAA ACGTAGACTA
GTTGGGCTCT GTCATGCCCA GGACATGAAT CAGCCCCICA TCAGCTTCT CTGACCATTG GTCACITAGT GGTCTTCTTG
GTTTTAGAT AGCAAGAAGG GTGATTACAG CACGATATTT TGACAGAGAC CACATTCACA TAGCTTTTAT TAGTTATGG
TTGCTGTAA TCTCTCACTG TNCITTTGTA AGCTTTATCA TGGTATTTAC GTAGAGGAA AAAGCCACGG TATAGATATG
TAGGGTTCCA TACTATCCAG TCTCAGGCA TCCACTGAGG GGTCTTCTG

SEQ ID NO:963: (Length of Sequence = 278 Nucleotides)

CTCAAACACC CGAGGCGGG AGGAAAGAGA AGCCGATGCT TCAGAGCAGA CACTCCTTAG ATGGCTCCAA ACTTACAGAG
AAAGTGGAAA CTGCTCAGCC GCTGTGGATA ACGTTAGCAC TGCAAAAGCA AAAGGGTTT CGGGAGCAGC AGGCGACGCG
GGAGGAGAGA AAGCAAGCCA GAGAGGCCAA ACAGGCAGAA AAGCTCTCCA AAGAAAATTN GAGATCTCCG ACTCGGCTCC
CCCAGCGCG CTGGTAAAG AAGTCACCA GAGGTTTT

SEQ ID NO:964: (Length of Sequence = 349 Nucleotides)

ACACTCTCAJ TATAGACAGT CGTGAAGAAC AAGGCTGAGG GATTTTNAAG TAAACCCATT TTCAGGATGA CTACAATCCT
TCCACTTCTA GAAAACITAG AAGTACAAGA AATAGCTCTA CTACGGGTAA CTGATTTAAC AATTTCCCA ACACCTTTTC
CACTACCCAA GCCCGTGGCC CTCAGAGAGA ACCGGGATGG ATTGCCATCT GGGTTCAGAG GCAATATGAG GAGGTTGGGG
GGATGGCAGG GGCATCCTCA GGGTTGGGG GCAGGCCAAG GGGATGAGAT GGCAAGGAC AGCTTTINGGA ATCAGATAGA
CGATCCAGCG TGCCTTCTA CACTTGCAT

SEQ ID NO:965: (Length of Sequence = 361 Nucleotides)

AGCAGCAAGC CAGACGTGAC TGTGAGAAC AAGCTAAAAT AGCTGTGGAA GCTCAGAATA AGTATGAGAG AGANTTGATG
CTGCATGCTG CTGATGTTGA AGCTCTACAA GCTGOGAAGG AGCAGGTTTC AAAAATGGCA TCAGTCCGTC AGCATTTGGA
AGAAACAACA CAGAAAGCAG AATCAGATT GTTGGAGTGT AAAGCATCTT GGGAGGAAAG AGAGAGAATG TTAAAGGATG
AAGTTTCCAA ATGTGTATGT CGCTGTGAAG ATCTGGAGAA ACAAACAGA TTACTTCATG ATCAGATCGA AAAATTAAGT
GACAAGGTG TTGCCTCTGT GAAGGAAGGT GTACAAGGTC C

SEQ ID NO:966: (Length of Sequence = 163 Nucleotides)

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CTGCCTTCCTG GGTTCAGCG ATTCINATGC TTCAGCCTCC CAAGTAGCTG GGATTACAGG CATGTGCCAC CATGCCAGT
TAATTTTTGT ATTTINAGTG GAGATGGGT TTGCCCCTGT TGACCAGATT GGTCTGAAC TCCTGGCCTC AAGTGATCCA
CCT

SEQ ID NO:967: (Length of Sequence = 365 Nucleotides)

GIGTCAGTAA TAATTTGTAC ATATTATNC ATCACCAGG TGTAAGCCC AGINCCCAAT AGTTACCTTT NCTGCTCCTC
TCCTCCTCT CACCCCCCTG CTTCAGTCT ACCCCNGTGT TTCTTCTTT GTGTTCCTAA GINCTTATCA TTTAGCTCCC
ACTGTAAAGT GAGAACATGC AGTATTTGGT TTCTGTCTCC TTGTGTAGTT TACTAAGGAT AATAGCCTCC AGCTCCATCC
ATGTTCCTAC AAAAGTCATG ATCTCATCT TTTTATGGC TGCATAGTAT TCCTGGGTGT ATATGTACCA CATTTTCTTT
ATCCAATCTG TCATTGATGG GGCATTTAGG GTTGATTCCC TGCT

SEQ ID NO:968: (Length of Sequence = 390 Nucleotides)

GTGTATAGTA ATTTAATAGT AATTAAATGT AGAGTATTTG TAAAAACAAG GAGAGGAAAA AGAACAAATC ATATTTGAGA
ACTCCTAATA ATCTTCTAGA GCAGAGTCA AAGAAGCAGT GGTAAAAATA AAGCCAAAGA GATATAGGGG CTAGTCTTAG
AACCAGGACT TCCTATAGAA CCAGCTTCT ATAGAATCTG AACTTTATCT GAAACTCTTT CACAGATCTC CTCACCTTA
ACTTCCACAA AATAAGAAAT TTGGATTTTG AAGGCAAATT TGTATATTTT AAGGAGCAGG ACAATCTCAG CTGTATCTGG
GTTTGCAGAT ATCCAACAAA TCCTACCCAA ATCACTTTTC CAGCTGCAGA CTGTGAATTT CAGATCCAGG

SEQ ID NO:969: (Length of Sequence = 340 Nucleotides)

CAGACAGAAA AAGATTGAA GAGACGGGTC AGGAACTAGC GGAATTACTG GAGGAAGAAA AACTAAGTTG TGTGCCAGTN
CTCATCTTTG CTAATAAGCA GGATTGCTC ACAGCAGCCC CTGCCTCTGA AATTCAGAA GGACTGAACC TGCATACCAT
CCGCGACCGA GTCTGGCAGA TCCAGTCTTG CTCAGCTCTC ACAGGAGAGG GCGTTCAGGA TGGCATGAAC TGGGTCTGCA
AAAATGTCAA TGCAAAGANG AAATAAAATC TAGACGAATG GAGATGCAGG AGCTTCGGGA GCGAATTCG GGCCTTAAAA
ACACTAATTT GCTGCTTTCT

SEQ ID NO:970: (Length of Sequence = 372 Nucleotides)

TTTTAAGATG GGATCTCAG GTTACCCAGG CTGGAGTGCA GTAGTGGCTC ATAGCTCACT GTGGCCTCAA ACTCCTGAAC
TCAAACATC CTCTGCTC AGCCTCCAA ATAGCTGGGA CTGCAGGCAC ATGCCACCAT GCTGGCTAA TTTTAAAT
ATTTGTAGA GATGGGCTC CACTTGTGT CACAGGCTGT TTGCTTGATT CTTAAGAAG TATAGGGATC CAGCTGTACA
GAGCTTCTG CAGTCTTTG TAATAGAAIT AGTGTATAA ATGTACTTA TTACATGAGG CATCAAAGAC CTGTGAATAA
AGCTATTNCC TCACATATCT GGGCCATTAT TTTGGACTTA CTATGGTTAC CG

SEQ ID NO:971: (Length of Sequence = 337 Nucleotides)

GACTATAGAG AACGCTGAAG TTTTGAATAA AAGACTCTAG GGAGAGCTTC ATCAGTGCTT GCTTTGNTC CAAGATGTAA
TGAGATTCTN CTTTACGTC AACAAATGCC GCAAAATNCT TCACCTGAGT GGAGCTCGGA GCACCCAGTC TCTCTGCATA
TAACCAAAAC AAATTTGAAT CCAAAAGGTA GATGTTGAGA GTCTGTGGT TTCTGCAGCT CAGGCTGTG AAGTTTGTG
TAGTCATGTC CACTTCTGGA AAGAGGATC CTGTNCTCT CAATGTGAGG GAACGGGAGC TTNGGGGCAT CAACCTCACA
TTTTCTTCTC AAGGGGA

SEQ ID NO:972: (Length of Sequence = 396 Nucleotides)

TTCTTTTACA TCAATATCC TCAATGGAAG AGGGGATATT GCACACAAAT ATCATAAAG CACTACATAT TACTTTCAT
GGAACTAAT TTNCTACAT AGATATGACT GGATAGGATA GAAGTGATGC AGGATTATAA GACATAATAC CACACAGC

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TGCAGACTGA CACAAACACC ATTCAGAACA AGAGAGAGGA GTGTGAAGTG CTTCTCAGCT GGGCTCAAGA CCACTTCTTT
CCAGTGCTGG AAAGAGGGGC TGCATGCACT GTAGGAAAAG CGTGTCTCTG AACTGCCACA GGGTGTCTC GAAAGGGCAG
CCCGTCTTG ATGCCACTTC TCCATGGCTC CTGTTTTTGG GGGAGCTCCA AACAAAGTGA GAGAAGCTGC CTATTT

SEQ ID NO:973: (Length of Sequence = 401 Nucleotides)

TTCTCAAAC TCCAGTCTC TTCTGGGCC AAGATCTGGT CCACCACTGC CGTGGCCTCC TTCCCCTGGC GGATGTT TC
CCGCTCCTGA GCAGAGAAAC TTTTCTTCCC AGCAACTTCT TCATCTGATG GGAGGAGGGA ACTGAATAGC TTTCC
GGGAGATAAG AAAGAAGAGT GTGGTGTGAA CAGGGAGCTT TGAGCTGTGG AGTTGGGCTG GGCATGGAAA ATNCGG LGA
GAGTAGCAAG GAATGAGGGG CTTCAGAGAA CTCTNGGATC AGCCCTCCA CACTCACTGC CCTTTAAGGT ATCTTTGGGG
AAAA AGGG GCTTCTATGA TGAGTCTGGC AGCTNCCAC ACTGCATTCT CCTCTGCAT TTTTTTACCA TGCACCAGGG
C

SEQ ID NO:974: (Length of Sequence = 311 Nucleotides)

TTTACAAATG AACCACTGAG CACCTCAGTA CTTAGCTCAT ACCTCATACC TTAGTTCCTT AGTACTTAGC CTTGTGCCAT
CTTGAATGAG ATGGAGTGAA GTGAAGCTCG AAGGAGTGAC AGAGACATAG TCCTTGCTCT CAAGGGGTCT TTAGCCTGGT
CTGGGGGACA AGATTTCTC ATCTACCTCT TGAAAGGTGG CAGGACAACT CCACACTGGA GTGTCTCAC CAGCAGATAG
GTGCTGCGG AGTGTGCGC CACATTCTTT ATAGCCACAG GCTTTCGTGG GACTTNCCT GGGTCTCTC CCTATTGGC
TGGGTGACC ATAAGCGCA AGTGAATGTG GCAAACITCA ATTACAATT AA

SEQ ID NO:975: (Length of Sequence = 340 Nucleotides)

GACAACAGAA AAAGAAGTGG ACAGCTACCC TAGATTCTAG CTCACACATA ATTCAGCCAG ATAATCATCA TTTAAATAAT
ACCCCTTGAA ATTTTTCAGA CTTTTCACAG CTCTAAAAAC ACAACATCAG ACATAACATC ACACATTTGT TCCAAAGGAC
TAAAAATCAA AAGCAATTGC AAAGTATTGG GAATCACTTT TATGGCTTTC CTAAGGGACA GTCCCCATCT TTCCAAGGAG
TGTTTTTAAA GAAGCACTAA CTCTGGTAGG TTATCAAACT ATTTTTCAT TCTAAATAAA TAAAAGACTA ACTGAAGGTC
TCAGGTGCAC ACTTATTTTT

SEQ ID NO:976: (Length of Sequence = 343 Nucleotides)

CTGTTCCTA AATATTATTA AAATTTTAAA AATTAGACAT TTGGTCTAAA TTAGACAGGT AAGATACTAC TGTCTTACT
AGATGCTTTA AAGTCATAAA CTGCTTCTAT GGCCTTTTAT AATTGTCNAA CTGCTTGCT TTAGAGCCAT TGGATTCTAG
GTAAGGCTA GAGACATTG GAGTACGCA TGTCCCTAG CTAAGCTAGA AAGAGTCCGA CATATCTGT GGTCTGTCC
TGTATCTAC ACTCTACACC TGATACATAA TTAAATATC TTACACTAAA AATAAAAATG GATGCATTTT TTAGGTAGGA
AGGGTATGGG AAATTATAGG TTT

SEQ ID NO:977: (Length of Sequence = 265 Nucleotides)

ATCTTTGTAA TATCAGTGCC TAGACTAAGC CTGGCGTATA ATAGGCACTC AGAGATTGA AGAATAAATG ACTAAATGAC
TGTATCAAAT ACTTGCCCAT TGTGTCTGT TCTGANTTG TACAAGGCCA TCATGATAAT TGATGATCTT AATAATGTGA
GAATATGATT CTNTACCTT AGTAAGAGAG CCATCAGTTT ATTGGATGAT AGTTATATGG AAAAAGAAGA AATGCTACTG
TGATAAATAT TTATAATTTT AAACA

SEQ ID NO:978: (Length of Sequence = 285 Nucleotides)

ATGGTGGGCT GCCCTGGCCG AGGTGGCCAA GATGSCACT GTTTCCTGCC TCANAAGAAA AGGCACTGAC GCACTGACCC
TTNAGGTTG TNGGGGTGT GGTCACTGCC CTCCTGCCTG AGGGTCAAGT GTGTTTTCAA GTCAACTTCA GCAGACCTCA

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TTTAACCAATT TTTTNTTCCC TTAAAAAAA AAAACCCAAA AAACCAAATC CCAATAAATA TGTTATTTTT NTCCATCACA
ATATTGCTTT AGAAAAATAA GAGCCGTCAA GCAGCAATTT TTCCT

SEQ ID NO:979: (Length of Sequence = 316 Nucleotides)

GTCGGTNCAC ACTCTCTCC TGCTCCCAA ACTCTCATC ATTGAAGCCG AAGTGGTCAA TGAAGGCAGA GGTATGCGC
TGCACTGGA AGTCCATGAA GGCCTGCTGC AGCACAGCCT CCTCAGGGAA GTTGAATCC TTGAGCCGGT CGTCTCATC
GTCACCTGGAG GAGTGTAGGT GGTGGGTGTT CACCAAGTCC ACCATGTCT TCTGTGTGGT CTCCGCCAGG GGCCCCGATA
CGAAGGCTTC CCACTGCTCC TGCTGCTGC TGGGCAGCTC CTTAGCAGC TTGCCGCAGC TGCTCTGCAA TTGGGG

SEQ ID NO:980: (Length of Sequence = 386 Nucleotides)

AAACTGGCTT GCCTTCATCA TCTCTGCAGG GNTCAGTAAA GATTAGAAAT GGATTATTTA CCTTGTATATA CAAATACACC
TCCTCCCTAC ACCCAAGANT TGAGAGGAAG ATGAGCTGTT CCTGTGTATA CGCCTGANTC AATCCCATTA TCTGCATTTC
TGTTGTGGT TAGCGCTCCA GCAGCCTAAG GCGGGAGCTG GAAATGACAG CCTTGGAGAC GAGGAAGGCT CCAGGGAGGA
CGGAGAGGAA CACCTGCTGA AGAATAAGAC GGGCGGCACC AGCCGGGCTG ATTTTGGGGA ACGGAAGGTA ACAGAGGGTG
ATGCTTCTAA TCGCTTTTAC AAGGTCTTGG AAAGACGGGA TNGCCTTAAC CAACTTGGGG TTTCTT

SEQ ID NO:981: (Length of Sequence = 322 Nucleotides)

GTATTATTAAT ATTAAACAT ATTAAATAA TACATGTNCA TAATGAAAAT GAAACATTAC AAATAAATAC ACAGGAAAGG
CAGTATTCCT CTTCAGTTC CACTCTTGAA ATAACCAATT AACAGATGA TGAACATCTT TCCATGATGT TCTCCAAGAT
TCATATTATT TTTGCAATCA TACAATGGCA TATACAGCTC AGGTGCGGTG GCTCACGCAA GTAAATCCCA GCATTTTGGG
AGGCTGAGGC GGGTGGTTCA CCTGAGATCA AGAGTTCGAG GCCAGCCTGA CCAACATGAA GAAACCCTGT CTCTTACTAA
AA

SEQ ID NO:982: (Length of Sequence = 305 Nucleotides)

CCCAAGGCTG TAGTTCAGCA TCAACAGGGC AGGGAGCTTG GCAGGGCAAG GGCAGAGCTG GAGATCATGC CCAGTNTTCC
AGGTGCCCTC CCTCCCAATC AGCCTGGGGG GCACAGGACA GGGATGGAGA AGGGGCTCTC TCCATGCTT GGGTAACATG
CCAAAGGCAG GTCATAGGGC AGACTCAGTG GGGGTGGGG CCTGGCTAAC AAGCAATGGA GAGAACGGGG GCCATCCAGA
GAGGTGGCA GAAGAGAGCC CCTGGGTCAA GAGAAAATT TGGGAAGAC AAGACACGGG AGAAG

SEQ ID NO:983: (Length of Sequence = 399 Nucleotides)

AGCCCTTGT TTGTTTTTAA AAGCTGTGCT GTTACTGCTT AAAGTCTCCA AACTGTTATT GAGAACACTG ACCAGAGCCC
TGTCATAGA CCAGTGTTTT TCCAAGTGCA GATTGCAACT CCTTTCGAGA GTAGGTGTG GAGCCATTIN AGCTGACTAC
TCACCAGCTT TCTTCAAAAT GTAAATGGAA TAGGATAGAA AAATAATGAA AAATTGTAAA GTGAATTGGA TGCAAAAAGG
GTAAATATTG TNGTGTGAGA CTTTTTGGG TGAGTGTGCA TGTGTTTACA TACTGENTCA CATTATAACA TGTATTGCTC
ATTATGGGTT GTGTCAGAA AAAATTCAGN AAACGCTGTC TCAGACTGTC CCAAGTGT ATTGTCTTAT AATGGGACT

SEQ ID NO:984: (Length of Sequence = 408 Nucleotides)

GTGGTATGAG GTATCAATGA AATACATTTA AGATGTACAT TGGTTTGT TT CAGAAAGGCG AGACAAGTCA AAGCGGGGAC
TTCCAGGCTA TAGGTAAATT TATACATTTT CTGGTTAAGA TTGGTTGAGT TTGTCTAAGG ACCTGGGATC AACAGAGAGG
AAATGTTTGG NTTAAGACAA GGATTGTGGA GACCAAGTT TTAATACGCA GAGGAAGCTC TTAGCTAGCA GGCATAAGAC
AGAAGAGGCT GTAAATGTT TTCTTATGAG ACTGAAAAGG GTGCCGTGACT CTTAATGAT TATCTCCTGG NCTGGAAG

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AAAAAAAAA GGAATGGCC AGGTGCGGTG GCTCAGGACG GGTCTGGTGG CTCACACCTG TAATCTTTCT TAAAACGTTA
TGAAGTTC

SEQ ID NO:985: (Length of Sequence = 439 Nucleotides)

TGGTATACCT TTGINTTTTT TTCTACTTGT TAGTTGTATT AGTATCAAAT GGCATAATAA AGTTACTTTG TTGCCATTT
CCCCTCATC TGAAATCAC AAAAAGCATT TATTTCTAAG ATTTATATCC ACTGACCTTT TCCCCAAAGT TATTTTCCTG
TTACTTGTAT TTCATCTTG CCCTTATTC TTTAATATTT GTATTAGAAT TAGCTTGCTC TTGTTTCCTT CACGGCAAAT
GTGTTACATT GCCCACTGGG TGGCTTCTGC GGATGCCCT ACCCACCCT CGTCTGGAGC AGAGAAGTCC TGTTAGCCTA
GCAGCATAGT GGCTGCTGC AGTGCAGGA GTTGTCTTC TCTAGCATGG TCTGTGATGT CATCTGGACA TAATTAATTA
GACTAATCCG AATAGAGGAC CAAGACAGCC CTGCTGCG

SEQ ID NO:986: (Length of Sequence = 286 Nucleotides)

CGGCGACGAA CATGGAGA CCAGCTTG GAGCGCAAGT CCTCCTGCGG GAAGAAGTGT CGCGCTCCA GGAGGAAGTT
CACCTTCTCC GGCAGATC AGATGTTG GCGAAGGACC TGGAGGAGTC GCAGGGCGGC AAGTCTCTN AGGTCTCTC
GGCCACCGAG CTCAGGT TTGGCCCA GAAGGAGCAG GAGCTAGCCA GAGCCAAAGA AGCCTTNCAG GCCATGAAAG
CTGATCGGAA GCGCTTA CGAGAAGA CAGACCTGGT GAGCCA

SEQ ID NO:987: (Length of Sequence = 381 Nucleotides)

TCCAAAGGTT TTGATCTG TGGATAA ACAAA TG GTACATCTAC ACATGGAAT TTGGGA GATGAAACAG
AATGINTGAG GGCACAT CATGTAT GGTG TG GTCTGCTCC CA TTCCA CAGGCA GT GTGCT
GGGTGAGGGG CTGGAGC GGCAGGAG CATC AAC AAGGGTGGAA GC SAAGA CGACCAG TTTACAGGT
GTNTACATG GTACAACCA GAGACTGGC GTGCTAGAA CCAAGAAAC ACTCAGGACA CACGACAT CTGCAGGGA
CCTGGGGGT GGTGAGGAAA GTCGTGCACG GGTGTTGGG GGGAGACTTG GAGGCCCTC T

SEQ ID NO:988: (Length of Sequence = 381 Nucleotides)

GAATTAATAC CAATAGAAGG GCAATGCTTT TAGATTAAAA TGAAGTGAC TTAAACAGCT TAAAGTTAG TTTAAAAGTT
GTAGGTGATT AAAATAATTT GAAGGCGATC TTTTAAAAG AGATTANCC GAAGTGANTT AAAAGACCTT GAAATCCATG
ACGCAGGGAG AATTGCGTCA TTTAAAGCCT AGTTAACGCA TTNTCTAAC GCAGACGAAA ATGGAAAGAT TAATTGGGAG
TGGTAGGATG AAACAATTTG GAGAAGATAG AAGTTTGAAG TGGAAACTG GAAGACAGAA GTACGGGANG GCCTCCTTCA
TGTTTACAAT TTTAATTAAT TTTTTTTATT TTAGNGTAA TTCTTACCA AACATTACCC A

SEQ ID NO:989: (Length of Sequence = 432 Nucleotides)

GTCTTGGT TTGCAACCT CTGCTCCTG GGTCAAGCG ATTCCCTGC CTTAG TCC CAAGTAGCTA AGAT 3
CATGCGC TTGCTGGC TAATATATAT ATATATTTT NTAGTTTITA GTAGAACGG GGTTCACCA CGTT 3
GCTGGTCTCG AACTCCAGAC CTCAAATGAT CTGCCCGCT TGGCTTCCA AAGTGTGGG ATTACAGGCA TTAGCCACTG
TGCCTGGCCA ACAATATATA TTAAATAAGC ACACATACAA CAAAGTAGG TGTGGTAAG CTACAAAAA TGTGACCAAT
AGCTTGCTGA AACCTAATT TTTATTTGTT CATGGAATT TCTAGACCGT AACTACACTG AATAATGAGA ATCTGCTGTA
ATCTTTTTTA GTGCTGTAG ATGAGCAATT GG

SEQ ID NO:990: (Length of Sequence = 421 Nucleotides)

GGCAGCCCTA CTTTNTCTC TCATTAGCAG TTTCAGTCCA CAGCTGGGT ATTAAATTG TNAGTCATG AAATTAATCC
CTGACTGAAT TGGAAAGGAA TTGTATTGTC AGTATTGGA TTTATTTATT TTNCAGGTAT GGAATTCTG TGATTTTGAA

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AACATGAATG ATACCATTTT GCAGCAGCAT TGTAGATTGG TAGTATTTTA GATTGGTATC ACAGTGCACC TGAAAAGTAA
 GTTTCATTTT ACTTTTTTNA TTGTTGTGTA GACGGAGCTC ACTTTTGTCA CCCAGGCTGG AGTGCAGTGG TGTGATCTTG
 GCTCATGGCA GCCTCTGGCT CGCTGGGTTT AAGCGATTCT CCTGCCTCAG CCTCCGAGT AGCTAGGACT ATAGATGCTC
 GCCACCATGC CCAGCTAATT T

SEQ ID NO:991: (Length of Sequence = 351 Nucleotides)

CCTCACTCCC CGCGCTGGCA CCTCAGGTTT ACAAGAAGAA CTAGGAAATA ATGCCGGCCA CGCGACCCCT GGAGAGGGGG
 CCGGCTAGAA CAGGTTTCCT AAGAATCCGC GCCACAGCAG GTCCCGCGAT GTTGGGGCCT TAGTGTATC GAGCTAGCCC
 CAATCCTCAA CCCGATCTTC AACTTCTGGT AGTCTTACA GAAGTCTGT ATTGAACCAG CCACTNTGGC CAGGGAGAAG
 TAATCCTCTG ATAGTTGAGG TTCTTTCCTC TCCTCTGGAG CAGATAGTGG TGTCTCTCC CCACAAAGCT CATGTTCTGC
 TGGAGAAAT GGAGATGGCG CCCTGGAAGG C

SEQ ID NO:992: (Length of Sequence = 406 Nucleotides)

CCAGAAAAA TGGCCACTAC TACCCTTGG CTCAGAAATG CTAGTCTTTA TTTNCTGAAA TGTTTTATAT AGAAAAAATT
 TAATAATAA TAGACATTCT TATATATTTT CTTACCATTT NAGATTGGGT TAAAAAGTAT GGNGACTTCC GGCCGGGTGC
 GGTGATTCAA GCCTGCAATC CCAGCACTTT GGGAGGCGGA GGCAGACAGA TCATGAGGTC GGGATCTGTG GCTAACACAG
 TGAAACCCCG TCTCTATTAA AANTACAAA GGAATTCCTG CAGCCCGGGG GATCCACTAG TTCTAGAGCG GCCGCCACCG
 CGGTGGAGCT CCAGCTTTTG TTCCCTTTAA GTGAGGGGTT AATTCGAGC TTGGCGTAAA TCATGGTCAT AGCTGTTTCC
 CGTGTG

SEQ ID NO:993: (Length of Sequence = 381 Nucleotides)

ATGGAAGGAC CGTGCGGGA CCCCAACGAG GCANTGCGGG AGTTTGCCAA GGAAATTGAC ATCTCTGTG TCAAAATTGA
 GCAGGTGATC GGAGCAGGGG AGTTTNGCGA GGTCTGCAAT GGCCACCTGA AGCTGCCAGG CAAGAGAGAG ATCTTTNTGG
 CCATCAAGAC GCTCAAGTGG GGCTACACGG AGAAGCAGCG CCGGGACTTC CTGAGCGAAG CTCCATCATG GGCCAGTTGG
 ACCATCCCAA CGTCATCCAC CTGGAGGGTG TCGTGACCAA GAGCACACCT GTNATGATCA TCACCGAGTT CATTGAGAAT
 GGCTNCTGG GACTCCCTTT CTTCCGGCAA AACGATGGGC AGTTTCACAG TTCTCCAGC T

SEQ ID NO:994: (Length of Sequence = 384 Nucleotides)

GTTCCTCCAG TTCGGAAGGA TAAAATCAA TTCCCACTTT CTGGGGTGGG TGCCCAAAC CTTCACAACT CAAGTGTCTT
 CCAAGTGCAA ATGTCAAAAT GGGAGGAGGA AAGGGTTTAA AAATTAGAGA AAATGTATG CACTTACGGA CTTAAAAATC
 CGAAAAACAT AGTAAAAAGA CAAAAAACA TAGCATTATG CTCTGAAATC ACAACCAAAG CAAAATATA AGGGACATTT
 TTCACCTAAA CTACCTAGAG GGATTTTTTG TTTAGTTTTT CTTTTTCTT TTTTTTTTCA TTTCCAGTT AAGTCCATG
 TCTTTTGTG AATTCCAATA CTTAACTGC AAGTCTGCAA TCGTCTCTGA AGTCAGTGAA ATTA

SEQ ID NO:995: (Length of Sequence = 386 Nucleotides)

ATAACTTTAA CAGAGGATTG GAATAATGAG GGATTGGCAA GGAAGCAGTA AAAGGAACA CTAAAGTATA GAATAATAGC
 AAACAGAAGG AGCACCTTAC CCCTAGGGCT GAGAAAGAGC ACAGGGAAGT CCTTTTTTNT TCCTGGACAG AGATCCAGAC
 GAGCTGGAGA AAGAAGTTGC TATGGTACTG CATCANTGGA ACTTGCTGGA AATCCACCCT CAAGGGCACT AGGAAAACCT
 GTTCAGGGGA GCTGTGGAGG GAAATGGGGT TGGCAGGAAA GCTGCTGGGC GCGGGGTGCT TCAGACTGCA GTGTATTGCA
 GGAGCTTGGG CACTGGGGAA GCTGTGTGCA CTGAGGATC CTGCTGAGC AGCACATCAG ATCAGG

270

SEQ ID NO:996: (Length of Sequence = 307 Nucleotides)

GTGOGCCAAC TGCAAGAAGG AGGCCATCTT TTACTGCTGT TGGAAACACCA GCTACTGTNA CTACCCCTGC CAGCAAGCCC
 ACTGGCCTGA GCACATGAAG TCTGACACC AGTCAGCTAC TGCTCTCAG CAGGAAGCGG ATGCTGAGGT GAACACAGAA
 ACACTAAATA AGTCTCTCCA GGGGAGCTCC TCGAGCACAC AATCAGCACC TTCAGAAACG GCCAGCGCCT CCAAAGAGAA
 GGAGACGTCA GCTGAGAAAA GCAAGGAGAG TGGCTCGACC CTTGACCTT CTGGCTCCAG AGAGACG

SEQ ID NO:997: (Length of Sequence = 402 Nucleotides)

TCTGCACCTA ATACTGAGGG TGTGAAATCT TCCTCAGTAA TGCCAGCCC TAGTACCACA TTAGCGCGGC AAGGCAGTCT
 GGAGTCACCG TGTCCGGTA CNGCAGCAT GGGCAGTGCT GGTGGGCTAA GCGGCANAGC AGCCCTCTCT TCAATAAACC
 CTCAGACTTA ACTACAGATG TTATAAGCTT AAGTCACTCG TTGGCCTCCA GCCCAGCATC GGTTCACTCT TTCACATCAG
 GTGGTCTCGT GTGGGCTGCC AATATGAGCA GTTCTCTGC AGGCAGCAAG GATACTCCGA GCTACCAGTC CATGACTAGC
 CTCCACACGA GCTTCGAGT CCATTGACCT CCCCCTCAGC CATCATGGCT CCTTGTGNTT GGACTGACCA CAGGCACTCA
 CG

SEQ ID NO:998: (Length of Sequence = 304 Nucleotides)

GCAGTCTGT GATTGTAAG ACTCACAACC ATGTGGAGAG GCCGAATCAC GCAGGAGAGC CACGCATTGG AGTACCCTGG
 CTCCAGCCC CTCCCCACC CGTNTTGAG CCAGAGAGCT ACAAGCAGGA ATCCAGTGC AGCTGCAAAT NATGGCCATC
 GAGGAAGTCT GTGAGAAGA GGCTGGGGC TGTGGTGCTG AGGGGGCTA GGCTCAGCAC GGGACCACCT GACGACAGCT
 CCCAGCCAGT CCATGCTGTC CAGGTGGCCA TCAAGCCAGG TTCCAGGGCC CATGGGTGCT TGCT

SEQ ID NO:999: (Length of Sequence = 321 Nucleotides)

AGAATGGTTT TGGAGCTCGA NATCTTCATG GGTAGACTT GCTGGTCAGA CCCAGGAGCA CCTGTGGCTC ACACCTTCTG
 TNCCCTCTCT GGCCTGTGCA GAATGTAAAC AGCAGACTCA TACTCAATGG GCACTACAGG CTTTATCAGA CGTTTTATAC
 AAGCCTGGAT TGCTTAGTAG GGAATAAGG CATCTCTGA GGGGCTTTC CACTTAGATT GAGAATTTTA TTTGAAAAGA
 ATCTGGTTTA AATGGCATTC TGGTCCGAGG TAGCTGCTCT CCCCAGTGA AGCTGAGCCG AAATATAAGA ATAATATATT
 T

SEQ ID NO:1000: (Length of Sequence = 253 Nucleotides)

CCCTAGAGGA TTGCGCTCT TTNATCTGCC AGTGACCTGA ACCACGCAGA TTTTCAAGC AGGAGGGCCG ATTGGGCAAC
 CACAGCTCCC GTGCTCTCTC TTTCAGTGC GCGCTTTCC CTCCGAGAAG GACTTTGAGG ACTACATTAG GTACGACAAC
 TGCTGTGTTA GCGTCTGTC CGCGTGGTC TTCAGCACC CCTTCAACCA CAGCAAGGAG CCCCTGCCGN TGGCGGTGAG
 ACGTGCGGCC GGG

SEQ ID NO:1001: (Length of Sequence = 164 Nucleotides)

AAACAGAGTA CTGGGATGTC ACTGTTGGAA AGTGCTCACA ATTTCTCATC TAAGCCGAAG TTGTCTGTC TCCTTCTTAC
 CTTAACAGTT TCTCACTGCC TGAAGGCAGC TGCCAAAACC CCTCTAAGCA AGCAGCACTC TTACCCACCA AAATCTATGA
 CCTC

SEQ ID NO:1002: (Length of Sequence = 262 Nucleotides)

ATATCTTCCT GAGGGAAAGT GGTAGAGTTA AAGAGGGCAT AGAGAGCGCA CTCATGCATT TACAACCTAG AATTTTAAAA
 AAAGTTTACA TTTGTGCTT TGTACTTCAG ATGAATTTC TTATTAAAAG AAATAAGGCC ACAGAGGTAA ACTTAAGTCT

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CCTGTTTCCC AATGCCTACC CTCCTTCTTC TCCTTTCTTC TTTCTCTTTC CTAGAGAAAT CCTGCCTTCC TTTCCCTTCC
CAGAGGCAAC TGGCATTATA AT

SEQ ID NO:1003: (Length of Sequence = 267 Nucleotides)

GGAAAGAGGA GCAGTCTGG AGGTTTGTGG AACCCAGTCC CCTGCAGAAT CTGTAAAACC TAATAAATCA TGGTTGTGGC
CATTCTCAGC GTGGTGATTG TAATTAGACG ACCCCCGGGA AGCCCAAGCA CTCGGGGCCT GGAGTTCTTC CCCCTGCCTG
ACCTAGAAGC AGAACCGTTT TCAGCGNTCT GCCCTGTGG CTTTAAGGCT TTGTCTTAAT TTAAGGAAAA AGATCCTCCC
GGGTTTTATT TCTCTCTTTC TTGAGTG

SEQ ID NO:1004: (Length of Sequence = 277 Nucleotides)

GGCTCCTAAA CACTTCTTTC CTGAGATGTT AAGCAAAGTA ATCATCCTGT CACTAGATAG AAGCGATGAA GATAAAGAAA
AAGCAAGTNC TTTGATCAGT TTACTCAAAC AGGAAGGGAT AGCCACAAGT GACAACTTCA TGCAGGCTTT CCTGAATGTC
TTGGACCACT GTCCCAAACCT GGAGGTTGAC ATCCCTTTGG TGAAATCCTA TTTNGCACAG TTTGCAGCTC GTGCCATCAT
TTCAGAGCTN GGTGAGCATT TCAGAACTAG CTCAACC

SEQ ID NO:1005: (Length of Sequence = 271 Nucleotides)

GTTAGGTCAT TCACACATGG TGGAGACAGG AATCTACAGA CTAGGGATCA GCCCAAGGC TATGATCTTT GTNCTGCGCC
GCTCTACCCC TGAGCAGACG GGCCAGAGGT CCAGAGAGGG CTGTGCTGGC AGAGTTCATA CTTTGATAAC TGAACCCTAG
AGTAAGCCTG CCCTGGGAAA TNCAGCTCA AGGGACTGAC AGGCATAATG CTCTTTGGGA GAGAAATGCC ACATCTGCAG
CGACACGNAT CCTTAACACT GTCCAGGAC T

SEQ ID NO:1006: (Length of Sequence = 336 Nucleotides)

TATTTTNCAG ATATGGATAA AAATTGCTTA GGAGAGTAAA GAGAGACAAA GTTGAAAGCA GGTATATAGT AGGTGTGTGT
TTAGTGTGA TCCCTTTTTG CTCCAATAAT CAAAGTGATA AATATTGAAA ATTGATTGAT GCAGCATTAC TTACTCCATT
CTAATTTTNA TATATGTCAA AAGTGCCATC TCCCAAACCTG TGCTATCCCC TTCAGGAGAA GAGACTCTGC TGAAGTTTAT
AAGGTTGACA TATTGCCAGC TTCAATAATG TAAAGATGAA GTGTATACTG GAATCTTAA TGCAATAAC AACTCTTTTG
GGAAGTAACC CCGTTT

SEQ ID NO:1007: (Length of Sequence = 355 Nucleotides)

GGCAAGAAGG CGTCGGCGGC GCANTGCGGA TCCAGAAGGA CATAAACGGC AGCTTGTTCC TCCAGGCTGG TGGGCTTINGT
GCCCTCGGCC TTGGGATGCT TATCACAGTC CTTTGGGACC AGAACACTGG ATATCAGTNC AGCCTCTGGG CCAGCTTCAG
AGGCTGTTAG AGCATCATTG CTGCTGTGGC TGATGCTTCC TTTCTCAGT AAATCACAAA AGTCGTGTG GCCATCCAGG
TTACCGAGTG ACTTAATTTC CAGAAAATTT AATATTGAGG TCATTATTGT ATGCATTTTC ACTGTGCCA TTTTGTATC
CTCGTAGGTA GGTCTATGAA GTACCACTGG GTTCA

SEQ ID NO:1008: (Length of Sequence = 269 Nucleotides)

ATATTTAAAG AGAGCTTTGG TCAGTAAAAG TATAAAANCT GAGCTTTGGT AAGGGTACAG TTTATAAGGC CTAGAGAACA
TCAAAACAAT CATTTCATAT TGAATGTATA AATACCCACA TGTGAGAGCA CATGTTGATT CAGTTTGAGT ATGTCTGCCT
TGTGNTCTT TAAACCTTT CCAGCCGGG TTATTTTCCC AAGCTTCTT TATAATTACA CCAGGGAAAG AGTTACNGG
NATTAATCAA AACCAGACAG TGGACAATG

SEQ ID NO:1009: (Length of Sequence = 295 Nucleotides)

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GATAGCAGCA ACATACGTTT GTTATTTCAT TTGCTTACTT ACAACAAACG TTTATTTCATT ATTTATAATG CAACAAGCAT
 TAACCTAGGT GCTAAGGAGA GAAAAATGAG TAAGACACAG TTTCTTTTCT CAAGGAAATC ACAGTCTGTT GGCAGAGATA
 AGTAGTAATG GTGCCTAATA TAGGTAACAC TTGCTACCTG CTCCAAGAAC AAAGTTAAGC AAGTGATTAA GTTAAGCAAT
 GCTTAGAGGT AGAGGATGTA AGANTGGCCT TAAAAAATGT GTCTTCTGAG ATGAG

SEQ ID NO:1010: (Length of Sequence = 356 Nucleotides)

GTATTTCTCTC ATTTGTGCAA ATNAAATAGA AAAGGTAAAT NAGAACTCA AGAGGTTTGT TACCTACTGT CAATGGAGTG
 GGGAAAATGG GTGGAAAGAA GAAGGCAATA AGAAAAGAGT AACAGGAAAC GACAGTNGAC ACTTCTGAGT ATACCTTGIG
 GAATCTCTTT CACTCTTAGA ATCATAGTAA TAGANGANGA AAAAAGAACT CCCCAACTG AAAAGGATAG ACCACTGGAA
 CAACTTCAAG TGGTCTAATG TAGAAGCAAA TGGAGTCCCT CAAGGAAAGA AGAGAGGTTT TGAAAAGAAA AAAACATTG
 AAGAGTTAAC AGCGAAACAC TTTCCAACT TAAAGG

SEQ ID NO:1011: (Length of Sequence = 315 Nucleotides)

AGAGAGACAC AACTGTAATA GAGACACAGA GGAGTGGCAC ACAGAGACCA CCTCCAGCT GGAGACAGTC AGGAAGGACT
 GAGGGAGAGG GGACAGCCAG GGCTCCACAC CCAGGCAAGA ATGGGGGAGG GCCTGTGGAA CAGAGAAGTC ATCAACACAC
 ACAGTTCAA GTCTACCCTA GGCTAGGAGG GGGAGCAGGA AGAAGGGGCA GGGACGCAGG GGCCCGGCT GCNAGCTCCC
 TGTGGCCTC TNCTGCCCCC TGCTGGCTCC CNCTGCGGTG CTCAGGCAGG AAGAGAGGAG GCTGCTGTTT TTAGG

SEQ ID NO:1012: (Length of Sequence = 272 Nucleotides)

CCCAACTCTA TAGCCCTAGT CAACCACTAA TCTATACCTT GINCTCTATA GATTTGCCIA GTCTAGAAAT TTGTATATAA
 TGAAATGCAT GCACITGAAC TTTTGTATC TGGCTTGCTT TTCCATTAG CATAAAGTTT TAAAGGTCCN CATATGTTGC
 TGCATGTGTG CATTCTTTT TGTGNACTGC NATATTACAT TGTATGGGAT ATACCATTTT GCCATATTIN GTTAAATCCA
 TTCATCCAGT TGGTGGGACA GCAGGTATT TC

SEQ ID NO:1013: (Length of Sequence = 252 Nucleotides)

TTTGTATAGT TTTTCTACAC TACTCTCAAG TTCAITCAGC ATGTCAITTC AACACATGT GACGTGTCAA CTTCAAAAAT
 TAAACAAACC AGCNAAACAC AACACTTGNC ACTACAAAGG AACTTGTTTT ATTCTCAACC TTCTATGATA GCTAAACTTC
 TCTGNAATTT NGTTCCCCCA CACATCCAC ATCTGGGCTC AATTTCCAGC TTCTGTNTT CTGTTTTATT TCATCCAAAA
 TGTATTTTTA AT

SEQ ID NO:1014: (Length of Sequence = 210 Nucleotides)

GGGATACACT GACAGTAATG TGAAGCGCCA CACTTGACAG TTTACGGCCC AGCAGGTCTT GGNCAAGTGC CATTCCACCC
 GGAACITTTA ACCCAAGCGG TGGGGAAGGA AAGCCAAAAC TCCAAGCTGG CACTTTTTTG GGGTTCGGG CCATGACACT
 TCTTAGGCCT TCTGCTGCTG AACTTTTACA GGGACAAAAG GTACCCACG

SEQ ID NO:1015: (Length of Sequence = 222 Nucleotides)

GGNAAGAAAG GTTTCTCAGA GGACAGCCTT ATTAATTTCT CAGAGGATGA ATTTGNACAA TGGCAGCAGG TTGCAGTCAC
 AACTTCTTAA GGTGCTTCAG AGGCTGATTG TTCCTAGNAA CACAGAGTAA TGAACATTTC CTGAAGAGCA ATGAAACAGG
 TTTTGAATTT TTTGTATCT GNACTAGNA ACACATCAGT CCCATCAAC CCATGGACTT CT

SEQ ID NO:1016: (Length of Sequence = 236 Nucleotides)

273

GAATAAACTG GTTTGGAACC AGAAAAGTAC AAAAAAGAAC AGCTAGAGGT ACATAGACAC AGGACAATTA ATCAATTG
GAAAAAAGAA AGNACTTACT TTCTCCATTG CTGCCCTGAAT TGTTTCCCAA TCTGCCCTGA AATGCCACTT TTGGCCAATA
TTTTTINCAA AATTTGACCA AAAAAGAAAA AGCACTNAAT TTCCCTTTTT ATACAAAAAT GNTTAAGTAG GCAAGT

SEQ ID NO:1017: (Length of Sequence = 259 Nucleotides)

GCTTCCCTAG ATTTTCCCT AATTTTGAC CTATGTGGAC AAAAAAATA ATCTAGTCCA AGCTTTCCT ACCTTCTTTT
TTTATTGCCC TTCTGCTTCT GNGTCCACA TGGGAACITG AAGTGGTTTA TAAGAATGCC ATGCTGTGCA AATAGTAAAA
ATGAATTINC TGATTTTAA AAAAGCCCTC AGGAACGGCA TATGTATANG GTATGTATAT GAAAAANGT GTTNAGGAAT
GCAGGAGGA AACTAGCG

SEQ ID NO:1018: (Length of Sequence = 354 Nucleotides)

CTGGAGGAGG AGAAGAAGCA TCTGGAGTTT ATGAATCAGC TAAAAAATA TGATGACGAC ATTTCCCAT CCGAGGACAA
AGACACTGAT TCTACCAAG AGCCTCTGGA TGACCTTTTC CCCAATGATG AAGACGACCC AGGGCAAGGA ATCCAGCAGC
AGCACAGCAG TGCAGCCGCG GCTNCCAGC AGGGCGGCTA CGAGATCCCC GCGCGCTGC GGACGCTCCA CAACCTGGTG
ATCCAGTACG NCTCGCAGGG GCGCTACGAG GTAGCTGTGC CCTTINCAA GCAGGCCCTG GAGGACCTGG AGAAGACTTC
AGGACACGAC CCACCGGAC GTGGCCACCA TGCT

SEQ ID NO:1019: (Length of Sequence = 393 Nucleotides)

GATGACCGAT TTGGCCATGG AAGACTTATC TTCATGGCAC AGAGAGNYTG TSCAGAGATG AGTCAGACTC AGGGGCTGAG
TAACAGCAGA GCAGAGAGTG CAGAAGTGA CGCTCAGAAG CGAGTTTATG TGTGTYYY CCTCTATCTG CTGGCTGTGG
CTGGTACTGC AACCTATCCC AAAGTAACAG CCTAGTCAAT GAGGTATATG CTTGAGATCT GGCAAACTCT CTCTGCACAT
AAAACGTGTA TTCTTAGTTC TCTGAAAGAC CCCACATCT TTGAAGTGTA AACTAAGAGC TACATTTTCC CTTTTACTAC
ATCTCCCTTA AAAGGAAAGC ACTACAAGAG CTTTAAATA GCAAGCTTCC CTATTCTAAG GGGAAANAGT CTT

SEQ ID NO:1020: (Length of Sequence = 403 Nucleotides)

CTGAGGAAGA GAGGTGAAGT GGCATCTACC CAAAACACCT GTGTACTGGT TAATAAGGTC GGTAGTTCCT ATTAATGAGC
TTGATGAAGG ATGGCACCTG ACAGGGCCTT AAATGANCCTG ATGGAGTGAA TGINACCAGT GTGAATTAAA TTINCITAT
ATATAATAAA TAGCTGTGCT TACACATTTT CAGATTNCT TTGTACGCTA TGGACATGGA ACAGCGGAC TATGATCTA
GAACAGCACT CCATGTAGCT GCTGCAGAGG GTAATACAGG AACTACTCCT ATCTATTTCC TTCCAGATT TAATTTCTAC
TTAGTACTAA AATCTGCTCT TTTTTGGGG GTGGGACGGT ATAGGTCATG TTGAAGTTGT TAAATTTTTT NCTGGAAGCC
TGC

SEQ ID NO:1021: (Length of Sequence = 452 Nucleotides)

ATCGCAACCT GGCAGGGGTG TGGGGTTTGC TGGGGGCTC TGTTGGGCCA TGATCTGAGG AGGGTATGTG GGGGGCGGGA
GCTCAGCACA TTCCATGGCC TAGAGGGGCC ACACAGAGGC CCCAGTGGGA CCCATGGCGT GGAGGCAGGT ATGGGGAGTT
KTGGGGAGAT CCCAGGGTGG TCTGGGGCCT GGAACCGGCC ATTGKGAGGC CCCAGCAGTT TCAKTGCCCA GGGCCTCCCT
GCAGAGCCAT GCATGGCAGA AGAAGTGTGT AGCATGAGCT GGTACACGCC CATGCCCATC AAGAAAGGCA GTGTGTCAT
GCGTKTGAC ATCAGCAGCA ATGGCTGGG GACCTTCATT CCAGATAAAA GGTTCAGAT GATATCAACG GCTTCTGAA
GAGAGACCCG GGCAATAACA TCCATTCANT TGGGAGAGGA GGTGAGGGAT NT

SEQ ID NO:1022: (Length of Sequence = 413 Nucleotides)

AGCAACAGAA GAAAGGGCCA CATATATGCA AATGCCTGGT CACTATATCT GGCCCTGAAG AAGGAAGGAG TTTGCAGGGC
 TCAGGAGACT GGAAATTTTT NCCAGGAGCT AGGAACGAGG GGTGGGAGA CGTTGGTCAA AGGGTACAAA GTCCAGTTA
 TGCAGGATGA ATAAGTTCG AAGACCTAAC ATACAGCCCA GTGACCATAG TGAATAACAC TGAATGANCA GTATACTCGA
 AATTTGCTAA CAGAAGAGAT CTTAAGTGT CTCATAACAC ACAAACATA GCAACTGTAT GAGGTGATGG GTATATTAA
 TAGCCTGACT GTGGTTATAC ATTTTATCAA AATGTCACAC TGTCGCTGAG TNCAGAGGCT CATACCTATA ATCCCCANCA
 TTTTGGGGA GCT

SEQ ID NO:1023: (Length of Sequence = 379 Nucleotides)

TCAAGTCTCA AAACTTTAAA AGACAGTAGA TATTTGTTGT TTTCTAGCTA AATGAGGGCC AAGATTGGNC TTTTCAACT
 AAATGAATC ATGTAGTATA TCTGATTCA TAGCTTTCTG GGGGAAAAGG GAGGATTGA ATTAGCAGCA GTGCAGGTCA
 GGAGCAGTAA AGAAGACAGT AGGAGGAGTC CAACTACAGA TGTGAATGAN CAGCCTCAGA GGAACACATG AGAAGGTGAC
 CTGCTGTTTA TCAGGAAGGC GGGGCTTTCT CTCTAAGATA CAAACCAAAT AGGAATCGTC AAATAGTTCA AATTATCCGG
 GGGAAAAGC CTGAGCAATG ATCCCTCTGG AAAACAAAGC AGTTCTCAGG CAGCACCTT

SEQ ID NO:1024: (Length of Sequence = 320 Nucleotides)

AGTCTACAGG AACAAAGAAA TCTAAGATGG CTGCTCAGCC TTGAAATGTA CATGTTTTGC AGCAAAGTTG TTGAAGAACC
 TTCCGTTGGC ACAGATTGTC CTTTTTCACA AGCATAACAG AGCCTCCTTC CGCCAGGNC TCTTCCGTG CATCCTTGCA
 AATGGCTCCC ATTTGACACA TTCCTAAGTC TAAGAGATAC CCACTAGGGC AGCTTGTAACA GTTCTTGAAT CCTGGGCCAT
 TGCACGTCAA ACAACTGATA TCACATTTTT TTGCAGGATTT TGTATCCATT CTCTGAAGAG TGGTCAAAGT AATAGCTGAT

SEQ ID NO:1025: (Length of Sequence = 368 Nucleotides)

TATTTAATCA TTTTTCCTT TGCCGAAGA CTAAAACTA AGAAGATTAT TCGAATGGTG AATTAACTTG TTGAAGAGAC
 TATCCAAAG GGATAGAATG AGACTAATTT CTGACTATGT TTTGCTAGTG ATGGGTGGAT GGAACAAAC ATTACAAGAA
 ATAGCATAAT GAATGTAGAA AATATTTTCTG TTTGGAGATG TGCATGANIT AGTTTCCTAG GTTTGCCACA ACAAGCATC
 CCAAACCTGT GGCTTAAAAA ACAGAAATTT GTTTCATGGT TCTTGAGCCT AGAAGGTCAA AATCAAGGTG TTGGCAGGAC
 CATGCTCTCT CTGAAACTCT AAGGGAGAAG CGTTCTTTGT TTCTNCT

SEQ ID NO:1026: (Length of Sequence = 379 Nucleotides)

GGTGCAGGTG CATACAGGAA GGACCATGTG GGCTCAGAGC AAGGGGGCGG CCATCTCCTA GCCAAGGAGG GAGGGCTCCA
 GGGACCCCAA TCCTGCTGGC ACCTAGGCCT TGANCTTCCA GCCTCCAGAC TGGGAGAAAA TAACGTCTCA TTGTTAAAGC
 CCCAGCAAA TGANTACAGA ACCTAGGAAG GGGCAATGAA TGANTGATAG GTGGAAGGGC TAAGAAGAAA AGAGGAGGGA
 GAGGAAAGAG ACGTGCTCAG ATCTGTCTCT NCTGGACATC CGATCCCAGG CTGTCTCTTC AGTGGGNCCT AGTCCAACTA
 GCAGTCAGCT CAGAAATAAT CCCNAGGCA TCGAAGCTTT CACAAAGGAG GNCACAAA

SEQ ID NO:1027: (Length of Sequence = 411 Nucleotides)

GCCCTTGGCA CTAGAAGCA GCCAGGAGGG AAGTACTGAC CATTTAAAAG TGGCAGATCT CCGGGCCCCA TTTCTGCAGC
 CTTCACTCTG CAACTCCAGG GAGGGTATTT TTNATTGTG GGTTCAAAA ATCTGTATAT ACAGTCTATG TGTTTAGAAT
 TTGTGTTGTA AGTAACTAC AGCTTTGAGT TGGAAAGAAG TCACGGGTG TAAAACCAAT TGGATTTTTT TAAAACAAA
 GTATTAATAA TCTGGAAGAC AGINTTGGCC AGGTCAGGAG TGTTTTCTTG GTGGTTCCAG CCCCCATCAA TTGAACGTGT
 TCTGGGCTCA GTCAGACACA GACATTCATC TGTGTCTGAC CAAATCAGG GCTTTCACAC CTGTGGGGGA GGGCACAGTT
 AGGATGTTTT T

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SEQ ID NO:1028: (Length of Sequence = 401 Nucleotides)

GATCATCATG CAGCTCAACT TTCTGTTGGA TTCCATGCTA AGCAAGCTAA CCTTATCCTG CATTGTTAGC ACTAGGCACC
 CAGCTGCCAC CTCCTCATCC TGCTGCCCTT AGGCCACATG GGAGCAGTCC ATGCATGACA GCCTCTATCC TACAAGGCCT
 ATGAGTATGG ATTGGGGGGG CCAAAGGAA AAAGCTCCAT GTGCCTCTTT GTCTGCGTGG GTCAGAAGAG TTGTGCACGC
 AGATTAGCAG GCCAAGGTCT GAGCCACAGC AGCATTTTTA TTTCAGATT TTGATAACTGT TTATATGTGT TGAAACCAAA
 NTGNCATCTT TTTAAAGCTT ATCCATAAAA AAAATAGAT GTCTTTTATA GTGGGAAAAC ACATGGGGGA AAAAATCATC
 TATTTTGATG CAGCATTGTA TAATGNTTAA ACACCTCACA CCTCACTCTT

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GAAAAATGCC AATTGGATGC CCTTAGGTGG AGGTGAGAAA ATGGCATCCT TGCCCTCTTC TCAATATGAA ACATTAACTA
 GTTGACAAAT TTATCCTTGT AGAAATGAAA ATCTATTTAA TCAGGGACCA GAAATGGCTG AGGAGATAAA TGCAATCATT
 CAAAATTCTG CTTTGAATC CTGGACATTA CAAGGGGGTA AATGCAGCAT GACTTTTTGT TAACCACATT CCAAATGTG
 GAACATTTCT TTTAGAAATG AAAATATTTT AAGGCTGATG TATTTTAAGN CTACACATTA TCAGGGNCAT ACATTGAGAG
 TTCGCTTAAT TAAAGGTTGT TGGGCATCAA ATTATGTTTA GTAGGTTACT ATTCTCTAAC AACTCAAGGN TGCTTTAATG
 G

SEQ ID NO:1030: (Length of Sequence = 340 Nucleotides)

TTCCCGCTTG ATTCCAAGAA CCTCTTCGAT TTTAATTTIN ATTTTAAAG AGGGAGACGA TGGACTGAGC TGATCCGCAC
 CATGGAGTCT CGGGTCTTAC TGAGAACATT CTGTTTGANC TTCGGTCTCG GAGCAGTTTG GGGGCTTGGT GTGGACCCCTT
 CCTACAGAT TGACGTCITA ACAGAGTTAG AACTTGGGGA GTCCACGACC GGAGTGGTTC AGGTCCCGGG GCTGCATAAT
 GGGACGAAAG CCTTINTCTT TCAAGATACT CCCAGAAGCA TAAAAGCATC CACTGCTACA GCTGAACAGT TTTTTCAGAA
 GCTTGAGAAA TAAAACATGA

SEQ ID NO:1031: (Length of Sequence = 452 Nucleotides)

CCAGGGGAAG GNTCCCAAGG GACGGGCTGG CAGCCGGACA CATGGACAAA CTGATGGACC CAGGACTGAT CAGACAAAGC
 TCTCATTAGC AGAATGTGGG CACCTGCACC CAGGGCCCAT ACCACGTCC TGTGAGCAAA AAAGCTTAAA GTTCTCCCTC
 CAGGCCAGG GCCAAGAGCG CCTCACAAG GGTGCTGCC TTGAACTTGG CCTGGGGAAA TNAGACCCTG AGCGGACCAC
 AGCCCTTGAG CCCTGGGAGG AGCAGCCCAT CCAGNAGCAG CACAGCTNCC GAAACTTGAG GAAGAAGACT TCCACCCATA
 GCACAAGAAC TGCAAAATCT GTCTNGNCA GAGCCACCAG AGGCCTTAGG CTTCCTTAGGA CACCGATATC CCCCATTCTAT
 GGGGTTNGGA GGGAGTGGCT TTTTTAGGCA AGGGACTTTG TTAGAGAGGT TT

SEQ ID NO:1032: (Length of Sequence = 411 Nucleotides)

GAATCTACAG AAACATAAAT TATACTGAGT TGTGCTGTAC TGGTTTGTA GAACATCAGT GTATTAGGA GAATGGTAGT
 TTAATTTGAA TATTTAAAGA AAGTAATTTG AATGGTTCTA GTACTAGGGC CATTATTAACT TAGTAACATA GATTAGTGAC
 TTCAACTGGG TGTCTTATAT ATCTGATTG TCTGAAGTGA AACTGTATAA GGTGCTCTTT TAAATGTAT TTGGAAACAC
 CATAGTTAGG GTAAATNCA TGTACAAT CACTCTTGCA TATTATTINC TTAGCCAAAT TTATGAATTC TAAGTTAGGC
 CAAATTGAAG GTTTGGAGTT TTACATTGTG GENGAGTCTA AATTCATGCG TTTGGCAAGC ACCAAGGNCA TGGGGAAAGA
 ATCTGGTATT T

SEQ ID NO:1033: (Length of Sequence = 372 Nucleotides)

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AGTGGCTTAC AAAACACAAA TTTATTATCT TACCAITCTG TGAGTCAAAA TTCCAAAATA GGTGTCACTA GGCTAAAATG
 AAGGACTGCA TTINTNCCTG CAGGCTCCAG GAGAGATCTA TGTCTTACTC TTTCGGGCTT CTAAAGGCTG CCCACATTCC
 TCGACTAGTG GCGTCCCTCC TTCATCTCTA AACCCAGCAA CAACAGGTG AGTCTCATG TCACATCTTT MTACCTTTTC
 TGTATCTCA TCTCGCTGAC TGCTGCTGGG AAAAATTCCT CACTTTTAAG GGCTATCATG ATTAGACTAT GCCCACTAGA
 TAATACAAGA TCTCAGATCC CTAACTTCC ATCACATCTG CAAAAGTCGC TT

SEQ ID NO:1034: (Length of Sequence = 320 Nucleotides)

CGCGCCGCGA CGGACGCCCT CAACCGGCAA ATCCGCGAGG AGGTGGCGAG TGCAGTGAGC AGCTCCTACA GGAATGANTT
 CAGGGCATGG ACGGACATCA AGCCTGTAAG ACCAATAAAG GCCAAGCCCC AGTACAAGCC CCCAGATGAT AAGATGGTTC
 ATGAGACCAG CTACAGTGCT CAGTTCAAAG GAGAGGCCAG CAAGCCAACA ACAGCTGACA ATAAGGTCAT TGATCGCAGA
 AGAWTACGCA GCCTCTACAG CGAACCTTC AAGGAACCCC CAAAGGTGGA AAAACCTAGT KTTCAGAGTT TCAAACCAAA

SEQ ID NO:1035: (Length of Sequence = 375 Nucleotides)

TTTTTTTTTT TCAGTGGAAA ATAACITTNA TTGAGACCCC ACCAACTGCA AAANCTGTNC CTGGCAITTA GTCCTTCTIN
 CCTTTGCAAT TCGGTCTTTC TTCAGTGGTC CCATGAATGC TTCTNCTCC TCCATGGTCT GGAAGCGGCC ATGGCCAAAC
 TTGGAGGTGG TGTCAATGAA CTTAAGGTCA ATCTTCTCCA GAGCCCGCCG CTTCGTCTGC ACCAGCAAGG ACTTGGCGAG
 GGTGAGCACC CGCTTCTTGG TTCCACACAC ACAGCCTTTC AGCATGACAA AGTCATTGGT CACTTCACCA TAGTGGACAA
 AGCCACCCAG AGGGTGTGATG CTCCTGTAG ATAGGTCATA GTCAGTGGAG GCATT

SEQ ID NO:1036: (Length of Sequence = 304 Nucleotides)

CTCTATGTCT TCTTCTTTTT GCTTCTCCTC AAGTAGAG TGACTTTTTT GAAGGTTAGC TTCTTCTAAG AGTTGCATGC
 TATTNCTGGC TCTTACAATA GCCTCATATC TCINATTINC TAATTCAATG CACTTTGCTT GTAGCTCTCT GGTCTGTTTT
 TCCAGATGTG TATTTCGGN TCINAATTGG TTGGCTTCTT GGATTGTAC ACATAATCTT ATTTCTAATT GTTTTATACT
 AGACTGTAAC TGCTGTAAAC GGCTATCTGA TGCTTCTCT CTINCATGGG CAGACACCAC ATCC

SEQ ID NO:1037: (Length of Sequence = 341 Nucleotides)

CTATGAGGAC CAGCAATTAG ATTTTATAGC AGTACTTCCC ATTAAAGTGA ATAACCAAAA TCACTTTAAG GTCAAGATCT
 TAGTCAATAC ATTATGTAAA ANCATATACA ACAGACAATA CACCAGAAAC TAAATCTTTT GCAACCTTTT AACTTTATGA
 TGAAAAACAT TAATGTCAGC TCTAAATGT ATTAAGCAGT TTTTACAAAA AAAATGTATA GAATACAGGA GCCAAAACAT
 TTANCAATTA CCCTAACTTG CTGACACAGA NTAATATTAA TAAATAATAC TGATCANNGN AAAGTAATCA ATTTGAAAGT
 GGTGGGGTA GAAGGACAAC A

SEQ ID NO:1038: (Length of Sequence = 281 Nucleotides)

GGAGGCTGAG GTGAGAGNT CCCTTGGGCC CAGGAAGTCA AGGTGTCAGC AAACAGTGAT TGCACCACTA CACTCCAGCC
 TGGGCAACAC AGCAAGATCC TGTCTCAAAA AAAAAAAAAA ATATCAGTAT TGTTTTATTA ATTGTAACAA ACACACTAAA
 TAAATGTAAG ATGCCAACAC TAGGGGAAAT AGGATNTGGN GTAAATGGGA ACTCTCTGNA TCATTTTTGC AACTTCTCTG
 TACATCTTAA ACTATTTTAA ATGNTCTAC AAAAGTTAAC A

SEQ ID NO:1039: (Length of Sequence = 246 Nucleotides)

CCAATGATGG CAAACATGAG GATGGCAAAG AAGAGAAGCA GCCCAATCTG CAGGAGTGA ACCATGGCCT TCATGATGGA
 CTTGAGCACC ACCTGCAAAC CTGGGCCAG AACAGGCCAG GTCAGGAAGC AACGTGGGCA GGGTAGGGCA AGGAATTTNG

TGGGGGCAGG GACAGANCAG CAGGAACCTA GCAGGGACAG CAAGGTGCTA AGCAGTNAGT GCTTTCAAGG GCAAAGGTTA
GAGCTG

SEQ ID NO:1040: (Length of Sequence = 399 Nucleotides)

GAGGTCAAGA AGAGCTTAAG AAAATATAGG AGATACTACA GCATGTTTGG TTCAATGACCG GAATGATTTA GTAAGAAGGA
AAAGCCAATA ATGTAAGAAA GGGGATTGCA GGAGCAAAGA CTTTAAGGAA TAAAAAGGNC AAAATGTGTT GTTTCACAGG
GAAGTAATGA CAGGGGCTGA GCAGGAGCCA GGAAACCAG CTTTATAGCTT CAGNTCTGCC TGACATTAT TGGTCATGTG
GCTCTGGGTG TATCTCACT TCTCTCCCT AAATAGCAAG AAGGAAAAGC CTTCTGGAGC CTCGTGCTC TGCTTCTTTC
TGTAACAATGG TTATGTTTCT GNTCCGCTTA GCTGGTTAAT TATAGAATCA CCCINGCTGG GGTCTTTTGG GGAATGGCC

SEQ ID NO:1041: (Length of Sequence = 324 Nucleotides)

CCATAAACAG TCCGTCACTG ACAAATGTTG TTACGCAGCA CATTTTATGC AGTGTGTGAC CATAACGAT ACACAGAGGA
AATTCAGGGC TTCTAGGAAA CCTTCTAAGG CCTCATCTCC CTAAGGGCAC CTGATGAGCC ATTCTCACC CCTGCCTGC
ACCAGGNTC CAACACCACC ACCAAGGCTA ACCGCTGTG ACTCTGGGCC CTGGGTCTGC AGTACCTGGC TCCAAGCAC
ACCAGCATCT GAAAACTTGN CATCCTTGCC GATNTTNCGG GGAGTATGG TTGATTGCAG TGACAAATCG GCAGAAGTTC
CGGG

SEQ ID NO:1042: (Length of Sequence = 212 Nucleotides)

ATCTGTTTCT CAGAGATGAC ACTGCCAACA ATCAGAGATT TGCATACAAT ACAGTTATGT ATTGGCTATT CACAATTAC
AGTAGTGTTT TTCCCTCTGA AAAATATAAG TNCAAAAGCT AAGTAAACAA TNGGTACTG CCATTGCGN TTTTTTACAT
GGNCTTAGCT TAAAGAACTG GTCTTTAGCA AATATTCAAC AGNTCAACCT GA

SEQ ID NO:1043: (Length of Sequence = 329 Nucleotides)

ACTTGGAGAA AGAAAAATTA GAGAATTCCA GATCCTTAGA ATGCAGATCA GATCCAGAAT CTCTATCAA AAAACAAGT
TTATCTCTTA CTCTAAACT TGGATACTCA TATAGTAGAG ATCTAGACCT TGCTAAGAAA AAACATGCTT CCTGAGGCA
GACGGAGCTA TTCCAGATGC TGATAGANCC ACTTTAAATC ATGCAGATCA TTTCATCAA ANTAGTNCAG CAGCAAGATG
AAGAGCGACG TCGGCAGCTG AGAGAGAGAG CTCGTGACCT AATAGCAGAN GCTCGATCTG GAGTNAAGAT NTCAGAACTT
CCCAGCTAT

SEQ ID NO:1044: (Length of Sequence = 285 Nucleotides)

GTTGAAGCTG TTTTATTTT ACACCTTCT GTTTTAAAC ATAGGGACTG ACAGGGAGAC CCAGGGCTGC AATCTGGGTG
GTGCTACATT TGTAGACAAG GACAACTTC TGTATTTTAA CCCAGAAACA TTAGAAAGTT TGCTCTGAA CTCTGGCTC
AGATTAGAT GCATCTTGA AGTGCTGATA TTTGGCTTAT CTGAAGCTTT GGGATTATCA TTNTCTAGTT ATGAAGGGAA
TGAAAGTGTT CATAACATTT TTGCAGGTGG AAGGTAAAGT TGTG

SEQ ID NO:1045: (Length of Sequence = 317 Nucleotides)

TCCGTTACTG TAGTATTGTA GTATAGTTG AAGTCAGCTA GGTGATGCC TCCAGCTTG TNCITTTTGC TCAGGATTGT
CTTGGCTATA CAAGGTCTTC TTTGATCCA TATGAAATTT AAGTAGTTT TTNTAATTC TGTAAGAAT GTCAATGGTA
GTTTCATGGG TATAGTATTG AATCTATAAA TATTTTGGG CAGTACGGNC ATTTTCATGA TATTGATTCT NCTATCCAT
GATGATGGAA TCTTTTCCA TTTGTTTGGG NCTTCTCTA TTTCCTTGAG CAGTGGGTT GTAGTCTTG GACAAGA

SEQ ID NO:1046: (Length of Sequence = 316 Nucleotides)

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CCAGGTGCAA TCTCGGCTCA CTGCGAGCTC TGCTCCGCG TAGTGGGACT CCAGCTGTGC ACCACCCAGT CAGCCCCACG
 CCCACCTGC CAGGCGTGTG CACGGTTCAG CGTCACITTA CAGATGAGGA AACTNAGTCT TTGGGAAGCT GACAAGGTGC
 CTGACACAGG CCAGGGCAGG GNCACCTC ATGGGCTGTG CTGCAGCCTC TGCTCGTGG GTCACGGCAC CCCATCTACG
 AGGNGCCCT CAAGGATGCG CGTCCAGTN CCCGGGCCCC TTGGCATGTN CCTGGCAGAG AAGGCAGCTC AGGGGT

SEQ ID NO:1047: (Length of Sequence = 261 Nucleotides)

CTTCCTCAA CTGCGGTTC AGCTGGGTCT CAAACTCAGG CTCCAACCTG GTCTCAAACCT CGGGCTCCAC CTGGGTCCCA
 AACTCGGGCT CCACCTGGT CCCAACTCT GTCACCACCT CTTTNTAGGT CTCANTCTCC GACTCTCTCC AGCCAGCGGT
 GGTGGCGGT ATNAGGCCCC AGGGCTCTAT GGTAGTGCTC AGGGTGTGTG GCAGGGGCAG GGGGCAGCGT GGGAGGCACA
 GTGTNGGGG CCTAGGGTGG T

SEQ ID NO:1048: (Length of Sequence = 390 Nucleotides)

GAGAACAAAG AGAATGGAGG CCACATACAA TGGAGTAACA GAAGCTTTGC CTGTAGCTCA AGAACCAAGC CGAGAATCCA
 CACCTCTGA TTCACAGTTC AGTATTTTCG GCCACITTA TCAAATATTT TTATAAATTA TTTTAAATC GGCAAAATAT
 TTAAATTTCA TCCATTAAAT TTAAATTTCT AGATGCCCTA GTGGCATCCA GAACACATAT TINGGGGAAA ATATTCTAAT
 TTTTAAAC AGAAAAAGCT AGGNNCAGAT GATGCATTAA AAAAGTAGAA CACAGAGCTC TTAATTTAGG AATGATCAAA
 ATAGGGTTGA TTCAACTATT ACCTCTCTCT AGGGATTATG GATCAACCCC TAGCAGCAGN CAAAGTCACA

SEQ ID NO:1049: (Length of Sequence = 335 Nucleotides)

AAACTCACAA GTAAATAAT GCATATTTAA GGGAAATATT ATACAGACTT TTTCACACAG AAGTACATAA TANGATTTTT
 TAAATCTAT TGCCATTCTAT TTATTTTTCG AAAAAACGT ATAAATATGT CACCAGCTTT NCTTAACCTA AAAAACTTAA
 ATAAAGACA CCAGATGAAA ACTACCTTT GCTGCCATTT TTTTAAAGT TTTTGTAG GGGTTTTTAA TTTTGGGT
 TTTTTCNTT TTNTGCTTA GAATTTGGTT TCTAGGAAG AAAAGCCCT GCATTAAAA CAGNCCATTT AAAAAAAAAA
 TTCAAAGTTC TGGAT

SEQ ID NO:1050: (Length of Sequence = 265 Nucleotides)

AAAGGGAGG AGGGAGGGAT GTGGAAAATA TGCAAGATAA ATTAAATNCT TAGTTAAAAA AAAAAAAG TTTACCAAC
 TGNTCTCAT TACTGAGAAG CCCCCACCT GCCCACTGT GCATATTCCT AGTATTTCT CCATGCTCTG CTCTGCTGTG
 CTGCCTACA AAAAAACCT CCGGGGGG AAAAAAANC AAAAAACGG TGTAGTGGA ACTGCTGAAG AACTTAAATG
 TTCAAGNGCA TCTTTAAAGT CTAGG

SEQ ID NO:1051: (Length of Sequence = 298 Nucleotides)

ATTCTAAAA TGCTCTCAA TACTAATATT ATACATTCTC CCATTATCC TCAAAAAACC CATGAGACTG GTGATGTAAT
 TNCGTGTTT ATTTACAGC TGTGGCAGT AGTCTAAAGA CCAAGTGATT TGCTCAAAGT CATGGAACAC TTAAATGGCA
 GAGCTAAGG TTAAACCCAG AATTTAAAA TTTTNTNAG CTTCTNGTTT TTNCCATTAT ACCAGTTTGG CCCTTCATTT
 TATTCATGG TTAAATTAAT TTATGGTAAC AAAGGGCCCC TGGTCACTTT GGACATTT

SEQ ID NO:1052: (Length of Sequence = 359 Nucleotides)

AAGCAAACG TGGTACATCA TGACACCATG GGAATGACTC ATGCCAGCCA TAAAAAGAA GAGAATTCTG TCCAGAATTG
 GTTCTTCCG GTGGGTCTT GGTCTCGCT ACTTCAAAAA TGAAAGCCAT GAACCCCTCGT GGTGAGTGT AACAGTTCTT
 TCAAAGATG TGTTCCGGA GTTNTTCCC TTNCAGAATG TTCCAAATGT TATCCCAAGT TTCTTCCCTT CTGGTGGGT

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CGTGGTCTTG CCTGATINTC AGGAGTGGGA GCOGCAGAAC CTTTGCCTGT GAAGTGTAA CAGNNTCTTT AAAAGGTGGG
TGGCATCTGG GAGTTTGTTT CATTCTCTCC CCAGTGGGG

SEQ ID NO:1053: (Length of Sequence = 195 Nucleotides)

GTTCGAAAT TGTATTCCTA GTGTGGCAG GTGGGGTCCC AATGGGAGCT ATTTAGGTCA TGNAAGGTGG ATCCCTCATG
AAATAGATTA ATGGCCCTCC CTTCCAGGT AAGTGNAAIT NCTCAGCTG TTAAGTCCC ACTGCAAGAA GTTGGTTGAC
CAAAAAGAAG CCNCGTGCCT CCCCCTAACC CTGA

SEQ ID NO:1054: (Length of Sequence = 319 Nucleotides)

ACAAAACCAG ATGTTCTCAC AAGAGCCCCT GCTTCAGAT CACTTACATA GTTTTGGGG AAGCCAAGAT CGAAGATTTA
TCCAGCAAG TCACAACCTAG CAGCTGCTGC AGAAATTCAG AGTCAAGGT GCAAGCTGTC TCAACATTG CAAGCAAAAC
ACACAGTACT TCCAACCTGT ACAAGAGGAG GAGTGCAAGA GGAAGAGGT CGCTGAAACA GGTGTTAGTA AGTTNAAGGT
ACATAGANTT GGTTCATGTT CACAAGCAAA TGTGTTGAG GGNCAAAGN CAGTCCGAG CCTGTAACT AACAACAGT

SEQ ID NO:1055: (Length of Sequence = 205 Nucleotides)

AACTCAATA GGAGCTAAAA AAAAAAAAAA GAATCAATGA AACAAAAAT TAATTTTGT AAAAATAAA ATTGATAGCA
CTAGCTAGAC TAACCAGCAA AAAAGNTAG CAAGTACCTA AATGAAAANC TGNAATGNA AAAAGGAGGA CATTACAAA
TNAACACAGG AAATACAAA GTTCCATGCA GCGAATTAT TCAG

SEQ ID NO:1056: (Length of Sequence = 165 Nucleotides)

TGCAATTAA TGATTTCTGC TTCACCAGAT TGGTAGAATG TATAAGATGG TGATGGGGA AGCATTTAAT ACCCAACAAT
ATCTGATTAC ATTGAAATCA CAATGGCTC CTTATCAAT VAGTAGCGT ACTGTTGAG CCTGVAAAAC TTTGAAAATA
ACTTG

SEQ ID NO:1057: (Length of Sequence = 203 Nucleotides)

CTTTCATTCA AAACCCATCA CAGAAATGGA CAGCTTGGGT CTGTAAACAA GCATTCATGT TTTAGAGCAT AGGTCACTAA
TTGTATATGA GAGCATACAC TGGCTACATA CAAATTAAT GTTCAGNCC ACACTTTTIN CAATGTTTAA AACAGGATNA
AGCCTTCCCT GTGAAAAGCA GCACCTTGT GAACGGTCT TTG

SEQ ID NO:1058: (Length of Sequence = 201 Nucleotides)

AGTGCAATAT GCACATTACT AAGCACAAAA AACAAGTGA ATTGAGAACT ACTTGCAATT TTTTGTAGTA AATGCCAATG
AATTATTATG CCTTAGTTTT ATGAACCTGN CINTCCTTG TGCAATTCCT TCCTTGCAA TGAATTGACT TNAACGCCGT
NAGTGAATAG CCTCAGNCTG TAGGATGTCC TTCAAATTT T

SEQ ID NO:1059: (Length of Sequence = 176 Nucleotides)

CCACACTGGC TACATACATG TTTTCCAAAT TAAGTTTTCT GATGGCTCAT CATTGCCAT CTCTTCAAAT CCAGGTCTCT
TTAAAAATCT ATGACCTTGG AATGAATGTG CCAGAATACC TGTATCTGG AAGTCCATGC GAATNTTGGC NTCGACTGCC
ATCCGCCATC TGCTGG

SEQ ID NO:1060: (Length of Sequence = 277 Nucleotides)

GTGAGAAGCA GTGTACAGT ATTACAGTCA GCCACAGAAG CTGTGTGGG GGACAAGACC CAATCCTTCC CCACACCAGG
CAAAGCAGTA TTGGACATGA GTTGGCATGT GGCTGGGCC ACGTCTTAT CCCCAGGNC CTGNGGGGAG ACCACCTTTC

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TGAATGGTGA ACCAACCCCT AGGCTACCAC TCTGTATTTC ATCAGGGGTA GGGGTATTAA ACCCCACATG CAAGTAAGGA
 ACCCTTGCCC CCAGTGTGCA AATGGGATGG GGATGCT

SEQ ID NO:1061: (Length of Sequence = 206 Nucleotides)

AGAAAGTAAG ATTCTCAGGG CAACAGTGTA CAGCAGAGTG GTTGCTCCAC AGACAGAGGA GGGCAGAGTG GCCCAGAGTA
 TCAGCGTACA GCAAAGTGGG TGTTCCTATC CACAGGGGCA GCGCTATCTC ATAGGANAGA ACAACCCCTA GGAAGGCAAG
 CGTCAGNCAG NCAGCAGTGN AACAGTCAAC AGTTAGCCAG TGTGAG

SEQ ID NO:1062: (Length of Sequence = 316 Nucleotides)

TINCCCTCAC AGAGTTTTAG TTAGAATCAC TTCTCTATT TCCACAAATC CTCTTTTTCT TTCCTTTTAT TTTCTAAAGT
 GAATGTCCAA GCAAAAAGGA AGCAAAAATG GTCAAAGATC TCTCTTACAA TATAGTAATA AATTTATNCA AACAACTTGG
 AATTCACCTT GTGCATTGAA AATNCAACTC CACACTGCAA ATTATGGCAT TTTTCCCNCT TCAAAGGAAT TAGTGAAGTC
 CATTGGATGC ATTCATACIN CTGTTTAGGN AATAAGGGAA ACCGCTTTGT AAAAGTNCAT CATGGCCTAG GAGTTA

SEQ ID NO:1063: (Length of Sequence = 314 Nucleotides)

ATGATCTGGT TTATGCTTCA GAAGAAGCAT AGTAGCTTCT ACAGAAAATA AATGATAGAA GGCAAAAGAG AAACATGGCG
 AGTATCCAC TCCAGTGTCT AGTCAAGAGA TTACAAGGGC CTGGCATGA GGACAACAGT AGAAATNGTT AAAAGTGTAC
 TGGATTGCAA AATATTACTT TTGGGCCAGG GCGCCGNGG ...ACAGCCT ATTAATACCC AGCACTTTNT GGAGGTGCAG
 GGAGTTNCGA GTACCACTCC TGGGCCAACA CGCTGTGAAA TCCTGTGAA AATATAAAA ATTAGCCGGG CCGT

SEQ ID NO:1064: (Length of Sequence = 322 Nucleotides)

GAAAGCATTT GAAGTAAGTN TGTAATAATG GCAGATAATA ATTAACACTT GGTAGCAAGA AACGCTTTCT GAAATACTGG
 GAACACTGAC TTGTTTCACT GTAACCTATC ACCTAGTGCT GTATCTGCCA TAGTGCTCAC AATGCAACT TTATATCCAA
 CATGGGTGTT CCATTTCTAT TTGGATAAAA TTTACTGGAA ATATACTAGC AANGAAAAAC TGGTCTTAAA ATGGCAAAAG
 GCTCTGGCAC TAAATTCACT GCTACTTAAC TTAGTTTACT AATTAACCTC CTTAATTATA GTTTTCCAAA TCCGCATGCA
 CG

SEQ ID NO:1065: (Length of Sequence = 297 Nucleotides)

CCCTGNCAAC TCCTTGCAATG GACTGATGCT GGAAACTGGG TCAGGGAGCT CCAGGAGGAA CCAGACAGGN TCCTGTTAGC
 AGGCTCACCA CAAGTTCTAA AGGGCACCAG CCTTGAGAAG GGCAGTTGGG ATGTGGCCAA ATGTGAAGCC AGGTTTNCCTG
 GGATCCTGAC TGTCCTCAGT TACAAGTTCC TGGCCACTCT GTGAACCTTG GGCAAGTTAA CTTCACACCT CTTTACAAGT
 TCCCTAATCT ATNAGGAAAC ANTTAGTNAC ATGACCTTCA TGGGAATTTA TTTATGA

SEQ ID NO:1066: (Length of Sequence = 267 Nucleotides)

ACAATGGGAC TGTGAGAGCA GCCAGCTCCT CCTGACTGC TCCACAGGAA GAGCCATCAA CAAAGCCAAT CCCTGGAGAT
 AGGCTCTGAA ACCAGGATAG AGACTCCTTC AATGGCTGCT GNTGGTTCCA CCATGTATCA TCCAGAGNAA TCACCTGNG
 TGGGCATAGG TGGGCCTGGG AATCTAGGGC ACAGCAATTC CACACATCTT CACCTAGAAA CCCTCCTTCT GGGTGGGCT
 GCATGGTTTC ATGCTGTAA ATCCAG

SEQ ID NO:1067: (Length of Sequence = 220 Nucleotides)

AAAATGCAAT TGGTTTGTA CTGAGTACTA TTCGTGGGAA GACAGCATCC TGNACTCCCT CTCTACAGAA TATTGGGAGT
 AAAAATGAAT GTCATCCCCG GTGGGAAATA TTATTGGGGG TTGAAGCAC AGAGCACAGG AAAAATTAAG TNCAGGAAAC

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AGACACTAAG AGTGCACTGG GCAGGTCTGA CTGCAGGTGA TGCAACTTGC CAGCCGTGGT

SEQ ID NO:1068: (Length of Sequence = 412 Nucleotides)

TGGCCAGCAT CTGGGAACCTT TGGGTGTGTG GACCAACTTC TTCCAACACG TGCGCACTGA TGGCGGGGGC CCCAGCCAGG
 CCTGNCCTGA AGGGTCTTCC CGNCCCGAG GGACTGTAGG GGGTCTCTAG GAAGCATCAC ATCAAGGTCC TCAGGTTAGA
 TNCAGNCAG CCCATTGACC CATTTNAGGG GACAGCTGGA GGAAGCCCG GAGTCCCTTG TTTCTTCAGC TGAG

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TGCTCATGA AGATAATTTA ATGCTAGACT GATTTCTGCA GAGTAAATC TGGCATGTC TTCAGGAAGT TTTCTTTGTC
 GCTGCATATG AAACATTAGG TCTCTCCAT TTACATACTC TATAACAAAG AACAACTGTC TTTCTGTCTG AAAGCAAGAA
 TGCAGCCTAA CAAGGAAAGG ATGATTGGAT GCTGCTCAA ACACATGCTT CTCTGTCTGT ACCCAATCAA TATCCTCATC
 ATCATTAAAC AGCTCTTTT TCACAACTTT CATTGCATAA ATACGATCTG TTTTTTTTAA TCGAACCAAC AGTACTTTGG
 CATAACTTCC TCTTCTTATT ACCCGGAGCA AATCAAAATC CTGAAGACCT AGACTGGATG AAGCTTTGCA CTTTCCCTGG
 NGTCATTGCC TC

SEQ ID NO:1070: (Length of Sequence = 358 Nucleotides)

GTGATTGTC CACTGCACTC CAGGTTGGGT AATGCAGOGA GACTGCGTCT CAAAAAATAA ATAAATAAA AAAAAAAAAA
 AAAAAAAAAA AAAAAAAAAAG CACCACCGCA CTCCAGCCTG GGCAATAGAG TGAGAACCTG TTTTCCAAA AGAAAAATNT
 TAAAGANTG ATCTNGGCCA GCGTGGAGG CTCATGCTTG NAATCCAGC ACTTTGGGNG GCCAAGACA GGTGGTTCAC
 TTGAGNCAG GAGTTCGAGA CCAGCCTGGC CAACATAGCA AAACCCCAT CTNCTACTAA ATTACAAAA GTTAAGTGGG
 CATGGTGGTA CATGCCCTNG TAATCCAGT TACTTCCG

SEQ ID NO:1071: (Length of Sequence = 411 Nucleotides)

CTATTTATGA ATCTCGCAT TGGTTTCGAA AACTCAACAC AGTTAAATGA ACAGGAATTG AAGGTGCATG ATGGATGCGT
 CCTCATAGC ATTTAAATCT CTCCACTTG ATTAAAAAT CCTAGTTCCT CTTCAGTGA TGTTTAGAG TTTTINAGCA
 GCCTCTGCCC TGATTAAAC AAATTAGCAT CAAAGATCCC CTGTGAATG AGAAATCATT AATTGAGAAA CATGCAATGC
 TCCTTAATTA CTTTTAGAAC AGTGAGAGAA CAAATAATCT CAGGTTCCAG AGGGCCCTGC CTGCTCTGCA CCGTGAAGTC
 ATTTGCTGTA GCTGCTGGAA TAAACTCAA GTAGGCAAAC ACTATTGGG GAATATCAAT GCAAGCTTTC AGTAAACACA
 CTGTAGGATT G

SEQ ID NO:1072: (Length of Sequence = 342 Nucleotides)

TCCCATTTTT ATAATTATG GAACATGAAA CTGTATTCT ATGAATCAA TGATTTTTT CCATAAAAT ATATGCTAAG
 AGAGTCACCA CAAACTATG AATTCTCTCC CGAATTATTT TGCTTCTTT GGAGCACCAT AGTCTTTGTT CAAATCACA
 CATGAACTG TTGCTGCAAT GCTAAAGATG TGAATCCACC ACTATCAATA CGGTGAGGT AAAACCTGGA GCCACATGTT
 ATTCAAGTTA TTTTGTAT CTAATGATT ACATGAAAT AAAATAGTAA GCCAATATTA AATTGTAGG CATAGTTGCC
 CCACCTNAAA AGTGTTTACA AA

SEQ ID NO:1073: (Length of Sequence = 217 Nucleotides)

GTTTTCTGTC CTGGCTAGGA TAATGCAAGC NCTTTTCAGA TGANTCAGAA TCGAAGAAA TACGCTGGTA AAACAGGACC
 TGATTTACCA GGNACTAAAC AATTACACTC CCATTTCCAT TGCTTTCAAT ATTTTCACAC GNTACAGGA CCTTTAAGAT
 GGAAAGGGAA AGCGATTTTT TTTCAACAA GTGGGCCACC AGATGAACCA AATTAGA

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SEQ ID NO:1074: (Length of Sequence = 379 Nucleotides)

GGTTAAATTC TCATCGGAAT GTATAAGCTT ATTTATTAGT GTATTTAATG GTTCATCAAT TGATAAAACA GGTGTAGCAA
ATACATGCCT TCCTTTTGGG GGATGGGCTT GGTTAATCTC CAAATGGGCC GTTTGGAACA ACTCATCATT ACTGTACAAA
GAAGGTACCA CTTCGTGGGA ACTTTCACCT TTTAACAAAA CTGGTTCATA TTTCTCACCT GCATAGGAAA TGGTCAAACC
TTGAAGTGAA GCAGAGTGCA TATGAGAAGT AGGCGACACA TCAAAACTG GTACAGATGT AGAGTGCAGC ATGTTTTTAC
TTGAAGCAGA ATTTGATACA ATGAGGATGC AACCATTGTA GANCTAAAT TATCAACTT

SEQ ID NO:1075: (Length of Sequence = 345 Nucleotides)

ATTAAGTTGA CAGTCCAATC AGAAATATTT AAACAAAGTT TCCTACTTAA AACACCATCT AAATATACCT TTTGTTATAT
TCCCAGCAGA AATTGATGGC AAGGAATCAT ATATCCCATC AAAACCGTAT TTTTCCCCCT AAAAGGCAGT TTAGATGTNC
TCATTCTAGG NTITCCATCT CTCTCTCCA CCATTCCAAT TCCCAGAGTA CCTCTACAAA TATCCCTGCT TACCAGTAGA
NCTATTTGCT TTAACAATCT TTCTGTGGGT AAGGAGATGC ATATGCCAAT GTGAAACTA TGGAGGGGGA CTCCTGCCTT
CAAAGGCTGA CTAGAAACCA TTGGA

SEQ ID NO:1076: (Length of Sequence = 286 Nucleotides)

TTTTTTTTGA GATGGAGTCT CGCTCTGNG CCCAGTGTGG AGTGCAGTGG CATGATCTCG GCTCACTGCA AGCNCGCCCT
CCTGGGTTCA TGCCATTNTC CTGCCTCACC CTCCCGAGTA GCTTGGACTA CAGGCGCCTG CNACCACGCC CAGCTAATTT
NTTNTGTGTG TGTTTTTGGC AGAGACAGGG TTTCACCATG TTGGCCAGAA TGGTCTCTAT CTCTGACCT CGTGATCCAC
CCGCTTGGC CTCCCAAGGT GGTGGGATTA CAGGCGTAAA TMACCG

SEQ ID NO:1077: (Length of Sequence = 366 Nucleotides)

TCACATAGGT CACATTTTAC CCATGAAACC TTTCTAAAT ACCTTTTGCA TTNTTGCCT ATCCTTCTAC ATCATCATA
TTCGTCAATT AAGTCACCT TTTTGGGTAA CATTTAGAA ATTGGGATTC CTCTTACAAT TGCTATCAGA CAGAAGCCAA
TTATGATGTT GTCATTGCTT ACACATGGG AAATAACAAA ACTGCCAGCA TGACATTTGC ATATGACAGT CAACAGCCTG
AAAGAAATTC CCAGAAATGA TACTGGAGCA TTCATTTTAC CCTCTAGGAN CCAATGGAC TNGGAAGGAA GTAGAAGATG
GGGAATCCCT AAGCAGCAGT CAAAGTAGGC TGGCTTTTCA TAATTT

SEQ ID NO:1078: (Length of Sequence = 380 Nucleotides)

GTTTAAGTGC GAAGATTTTA TTAGGCGGTA CAATTCGAAG GTGGTAAGGG TGAAAGGAAA GCGAAGGCA GGCAATACA
TTATTGAGCT GAAACAACCT TTACATTCAA GGACAGCTTC CAGACAAGCC ATGTAGAACC AGCATGCCTT GGGACTGTNT
GGATGGCAGG GAGACGAGT TCTATGCTGA CCATTCATG CTCTCTSCC CCTTTGGGGA AAGTATGCCT CACGACCTC
TAACTCTCCC ACTTCTCTGG GGGCAGCACC TGACCCCTCC CGGCAACTNC TAGGCAAGAG CATCTGTTC CTTCAAATTT
YTCACCTGAG TCTGAGTCAG AGCATYCCAT CATCAGAGCC TCTGTCAAGG AGGCAGTGTCT

SEQ ID NO:1079: (Length of Sequence = 439 Nucleotides)

CTTAAGTTAC TGAAATTGAA ACACCCCTTG TCCCTCTCGG CGGGGGCTTC CTGGTCTGTN CTTTACTTGG CTTTTTCTCT
TCCCGTCTTA GCCTCACCCC CTGTGCAACC AGATTGAGT GCTATAGCTT GATGCAGGGA CCCAGTGAAG TTTCTCGGTT
AAAGATTGGG AGTCGTGAA ATGTTTAGAT TCTTTTAGGA AAGGAATTAT TTTCCCCCT TTTACAGGGT AGTAACTTCT
CCACAGAAGT GCCAATATGG CAAAATTACA CAAGAAAACA GTATTGCAAT GNCACCATTA CATAAGGAAC ATTGAAGTGT
TAGAGGAGTG CTCTTCCAAA CAAAACAAA ATGTCTCTAG GTTTAGTCAG AGCTTTCACA AGGTAATAAC CTTTCTGTAT
TNAAATCAGG GTAACCCCTT TCTGTATTG AGTGCAGT

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SEQ ID NO:1080: (Length of Sequence = 419 Nucleotides)

CTGAACTCCC TGAAATAGG AAGTCTCAAT TAAAAATCA ATTTGTCATA GTCCACATAA AGATAATCAA TACATTTTGC
TCTCAGTCTT TGGGATGGTT TTGTAAATA ATATTATCTT GACAAAAACA AACAGGAAGA TCCCACCCCC AACACATACC
ACATTCGAAT GTTACCTGGN ATTAAATAT ATACCAACAT GCATCTTTAG GTTACTCTGG TCCATGGTTT CCTCCAGTGG
CAATGGAATT TACAAAAATG TAAGACGTAA TAGATATATA ATTATCTTTT TNCCTAAATG AAAC TAGCCT TAAAACTGG
TACATAATGG TTCCTGGGTT CANTGATCAA AATTATGGAN GTACACTTAA CCTATCTTCC ATTGAGTGGC TTTAAATGGG
ACCTTAAACT GTGGACTCC

SEQ ID NO:1081: (Length of Sequence = 411 Nucleotides)

CAGCGTTTAA ACCAAAGGCG CACTAAACCT CGTAAGCGCA TGANCAGATT TAAAGAGAAA GAAACTCTG AGTGTGCCTT
TAGGGTCTTA CTTCCTAGTG ACCCTGTGCA GGAGGGCGG GATGAGTTTC CAGAGCATAG AACTCCTTCA GCAAGCATAC
TTGAGGAACC ACTGACAGAG CAAATCATG CTGACTGCTT AGATTGAGCT GGGCCACGGT TAAACGTTTG TNATAAATCC
AGTGCCAGCA TTGGTGACAT GGAAAAGGAG CCAGGAATTC CCAGTTTGAC ACCACAGGCT GAGCTCCCTG AACCAGCTGT
GCGGTCAGAG AAGAAACGCC TTAGGNAGCC AAGCAAAGTG GCTTTTGGA TATACAGAAG AATATGATCA GATATTTGCT
CCCTAAGGAA A

SEQ ID NO:1082: (Length of Sequence = 350 Nucleotides)

CTGTGAGGGC ACAAGTGTAG GTATCTTINC AAGTCTCTA GGATGTTCTA GAATGCAGCA GGGTTGAGAT GCTCTGCCTT
AGGGGTAGAG AGGTGGGAAC ACTGACAGGT TCTGCAAAC ATCTCTGAAC AGCTGCTGGT GTCTTTTCT GTACTTCAAG
TTTCACGGCA CATCTGATAG CTGTNCCGAA AGGGAAGAGA GAATTACGTG GGCTAGGCTG GTTTGAAGGT TTGNTAAGN
TTTGCTTGA GCGACTTTAA CACGTTTATT TCAAAGTAAT TTGTGTTGT AGCCCCACTA AAGTAATTTT GGGCCAGNAA
AGGTTCAAAA TACGGTTTTT CCTACTTAAG

SEQ ID NO:1083: (Length of Sequence = 430 Nucleotides)

GTGAAGTCCA CTGCTTATG GACAGCCCAT TTGCATGGG CCCTGCGTGT GTGCAGCCC AGGGTATGIN AGGAAGGCCT
CANAGGAGCT GCTGCTGCCA CAGGTGGTCA CCAGGCAGA GGTTACACTG ACATACCTCC AGACCAGCCC GCTCCACTGT
GGACAGGGGC AAGTACATA CCGCTGTTT ACCATGGGT CACGCAGAA CCTGTNTAC GGGTGCTTT GTGATGCCAA
ATGGATATAG GTGGGACGTG CTGGCAGCAG CGCCTCAGC GTCAGCCAT CTCCCTCCC GTTCTGCTCC GGCTGCCTG
TGGGCCTAAT GGTGGCACCG TTTAAGCANC TGCTGTGTG TCAGCCTGG GNGCTGAGG TTTCCATACA TGATCACTGG
TTCTACCCA AGGCCTAAT TCTTNCCTGT

SEQ ID NO:1084: (Length of Sequence = 369 Nucleotides)

AATGAAGAA GTGAAAAGA ACAACACAAA GAAAATAAG AAGTAACCTC TTTACCCAC TGAAATAATC TCTGGAAAAG
ATATTAGCAA TCATGCAGCT TATAAATATC TAAAGGGCTA GAATTGAGGA ATTTATAAGA NTAAATTTT TTTTCAACAC
ATAAAATACA ACATGGGAAA TAAGATGTTT TTTACTAACA GGCAAACT TGAGNGTCC TCTTCAAAGA CTACAGTGA
TGAAAGACCA GTTATCCAAA GGAAACGGT AGTAGAAATA TAAAGTTAGT CCCACACAAA ATTAAATGG TGCTCAATGC
AGATTATCTA TCATTANACC ATTTTAAAG GCAATTNTT ATTTAAAT

SEQ ID NO:1085: (Length of Sequence = 413 Nucleotides)

ATACCTTINA GCTGGCATAA TTAAAGTTC TAATTATCCC TTAATCATAA GCTGTACGAT TCTATAATTA AAAAGTTAAT
GCCTTCTTAA TGCTATNCT AGTAGAAGAA TGATGAGAAA ATAATAGTAT AGATTAGTTT TGGTCTCTAC TCATTTTGCC

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TTCTGATTAT ATTACAACTC CAGCTGGTGA CAAGATGGCT GTGTAAATCT TGAAATCACT GAGCAITTCAT TTTAGCTTCT
 CATTGAAAGG TAGATATTCA GTATGAATTG TAACTGGCA TTAAGGGAGA AAGTAGGNAT AATCAAACIT GATCTGAGAA
 TTACTTGCTG GTGCATTTC TCAATGCATA GTAATATCCT TATGANGATG CAGATGCAAA AGTGGGTTTT GGAGGTGGAT
 AAGGAGGGCA GCT

SEQ ID NO:1086: (Length of Sequence = 277 Nucleotides)

TGGATAGCAT GAGGCAAATT GCCAGAAGAG AATTTCTTTC GCATCCTAGT AGAATAAATC CAAATTATCT TTGTGGTACT
 GAGGATGTCT GGTITAGCAC AGTGTAAGT TGTAACACTT TAACAGGCTA TTAATTCACA GTCACTAATT CAATGCTTGC
 CCGGAGTTTT GCTAGAAAAG GATGAGAAGG ATTAAGGTAA AAAAAAAAAA NAAAAAAAAA AAGATAAGGT TAACCAGATA
 CATCTTAAGA GCTGATTGCT CTTCAITCCC TAACTCG

SEQ ID NO:1087: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT TTTTTTTGAG ACATTGTCTC ACTGCGTCGC CCAGGCTGGA GTGCAGTGGT GCAATCTTGG CTCACTGCAA
 CCTCTAAATC CCAGGTTCAC GCGATCCTCT CACCTCAGCC TCCGGAGGGC NIGGGATTAC AGGTGTGAGC CACCGCGCCC
 GGCAGCATT TTTTTTAAAG ATCTGTGATA GTGCATGTTG TGCTAGTTCT TTAATACAGA CTATATTGTA TTCCATGTCA
 GTTTTAAAG TTTATTTCCC TATTGATGGC ATTTAATTC AACTTTTAGA TAAAAGGATG TACTGGACAT TTTTATAATT
 TTTTGGGGG ACCATGTAAG AGTTTTTCTA GGGGGAATTC

SEQ ID NO:1088: (Length of Sequence = 209 Nucleotides)

CTGGGACCAG CTGGAACAGA AGTGGTAAAG GATACTAGC TACCTGCACC GCCAGAGATC AGGNTCAGGG TGAAGCTGGT
 TTCCAGCAG CGGAAGTGAA GGAAAGTGG TNGAAAGGAA GAGGAGGAGC AGGAGATGGT AGGTCCCTCG CCTNTCTCCC
 NINCTACCCT GGAAANATAA GTGTCAGGTT CATACTTAAC CACCCCTT

SEQ ID NO:1089: (Length of Sequence = 409 Nucleotides)

TTTTGCTCAC AGCTACATCT TCAGAGGTGA GAACCATGCA TGACACAGAG AAGATGCTCA CTGATGGATT TAATGAGTCA
 AACATGAAG AATCAATGAG TGCCGGAAT AAACAGGATA GGTGGCAGCA TAGCATGCC TTAAGANCAAT GGCTGTGGAT
 TCAAATCCCA GACCAATCAC TGANTTTCAA GCCACTTTC CTCTCTGAGC CTCTGTTTC TCATCTGTCA AGTGGCAATA
 ACAATAAATG GTACGTGCCT CATAGGGGCA CCTTGAGGAT TAAAAGAGAG GGTTTCAATA AATCAAGTAC TGATTTCAAA
 ACCTGGCACA TAGTAGGCAC TCAGCACATG GNCCTTATAT ACTTNTGGGC CAGCAGCGGC TGGGGCTCAT CCCTCCCTGG
 CTGGGTCCA

SEQ ID NO:1090: (Length of Sequence = 337 Nucleotides)

GAACCTNTCC CCATTGGAGA GGATGAGGAT GATGATCTGG ACCAGGAGAC ATTCAGCATA TGTAAGGAGA GGATGAGGCC
 CGTNAAAAAG GCACTGAAAC AGCTCGACAA ACCTGACAAG GGGCTCAACG TGCAAGANCA GCTGGAACAC ACCCGAACT
 GCCTGCTGAA AATCGGAGAC CGGATAGCCG AGTGCTTAA AGCCTACTCA GATCAGGAGC ACATCAAACCT CTGGAGGAGG
 AACCTATGGA TTTTGTTC CAAGTTTACA GAATTTAATG CTCGAAAAC GCATAAGTTA TNCAGATGG CTCATAAGNA
 AAGGTCTCAA GAAGAAG

SEQ ID NO:1091: (Length of Sequence = 411 Nucleotides)

CCACTACCAC AGGAAATCTC TATACCCTTC TTGGCTTTTC CTTTTAATGT AATTTCTTA AAAGCTTCAA GATAATTTTT
 AATCAGGCAT GCTGAAATCT ATCTAACCTA TTAGTCACTA ATTATATTCT TCAAGCCTAT ATATTAATGT TTCTNCTGTT
 GTAAATTCAT GATCATAAAG TTTTGGACCT GGCCATCAAT ACTAAAGCAC TGATATTTAG TTTTAGGTGA TACTTGGGCA

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TAAATACAAA CACGGGATAT ATTINGTCAT AGAAAAAAT GGTITACTGC ATTATTTTGC ACTTCTGAAG GACTGCAAAC
 ATTTTTCAG CACAATAAGC AAATTCTTCT TTCAAAAAGG NATACTTING CACATATGTN AGGTTTGGAA AATGACTAGG
 NCCCTAGGGA G

SEQ ID NO:1092: (Length of Sequence = 349 Nucleotides)

AAAGAAAATG CCTTGGGAAG ACAGATGCAT TTTINCCAC TGGTGTGCA ATTGCTCAAA TATTTTNAGG ATGAATATCC
 TCACCTTGA GCAAGTTT TAAGAGTGAA TTGAATTAC TGGAGCAGTG AACAAATTATT TAGAGTCTGG TATAAGTGAA
 GAAAAGAATC ATGACNGTA AGCTGTCTTG NAGGTACCAG CAAACTGNCT CTAAAATTTA TATGGAAAGG CAAAGGGGTT
 AGAATAGCCA ACATAATACT GNAGAAGTIG GAAGACTCAC ACTATCCAAT TTCAAGGTTT ACTGTAAAGC TACAGTAACC
 AAGGCAATGT GGCACITGGTG AAAAAGTAA

SEQ ID NO:1093: (Length of Sequence = 400 Nucleotides)

GGACCTTGTT TTACATCTG GATTTTCCTT TTTACTTCC TAATGATGTA ATTTAACINC TTCCGTATT TNCCATATTT
 CCTATAAAT GGTAGTTAGA TCTAAAAGCT TGATTTACTT ATTTTCAGATT TCTAGTCAAG GGTACTCAAT AGATTGTATT
 TCCTTTTGCC TCACACGGAG GTGCATAATG TCTGCCGGC CTGTAGTGAT GCTAAGGTTG ATCATCTGT TCAGGTGGCA
 TCAGTCTGTG ATAACCTCCT GTAAGAATCG TTCATTAAACC TTTCATCTAA TGGNTCCATT CATTCATGAT CTTTAACTGA
 ATCCCTGTTA TTTCAITAGG GAATAGCAAA ATAATGATTT TCTAATCTG TNATTCTTT CACATTTATT AACTGTAAAT

SEQ ID NO:1094: (Length of Sequence = 414 Nucleotides)

GTCAGTNTC CATAACTGTT TCCTGCTGAC AAAGGGGAG TGGTGATGGT TCINTGGGTC TTGGCCTCTT GCTAGCTGTC
 ACAGCAGGAG GGTGGCTTIN TGGATTGGTG AAAGTGGTAT CCAGCCAGGT CCAAGAGAGA CAGGGGAGG GTTTTINCAA
 TGCCAAATAT ACTTCAGCAG TAGAAGCCAC AAGATTACAT TATTAAATTG TCCCAAGAGT CCCCCAGTGC AAACCCAGC
 TGAACGCCAT TTAGTTATAT NCTGGTGGT TTTCTTCTG CAGGAACCTA AACCAAGGTT TCTTATGTGT GCTTGAGTTG
 GGGGCCAGAG TGACAACITG TAGAAAATA TGTATTCCC CAGCTANGAG AACAGAGGGG AGGGGTACAT GATAGTAGGG
 AGTCAAGTTT ACAA

SEQ ID NO:1095: (Length of Sequence = 387 Nucleotides)

GATCTGGCAA CCAATTATGT AAATAGTCAT ATGAATCCTT CAGAATGGAT AACACAGCTT TNCTGACTGG TGTGAAATAG
 TTTTCAGGTG CTCATCTTTT ACTTCATTAG CTATCTTAT ATCATTAGCT TATCCTCCAT TCAGGTATAA CAGATCTTTT
 TTTTCTGATA AATATGGCAG TTTAGGGAAA TAACTATGG CATAATATGC TAGGCCATTG TTCTAGGCCA CGCTTCTTTG
 ATTGTAACCT TAAACCTTTT ATCAGAACCT AAACAACCTT TCAAAAGATC TATACATATT TNATCCAAT GTTTAAGGCT
 ATGAGTAATT CATTATGGTC ACTCTTCATT TTNTCACCT GATAATGATC TCGNCAAAA TGTITGAG

SEQ ID NO:1096: (Length of Sequence = 416 Nucleotides)

AACTTAAAGC TTTAGAATGA TTGAGGTAGC TCAGAGCAAA AACCAAAAGG AAAGGTGATA TGTAGATGTC TGGGCACTCA
 CATCATAGGT TTGGATAGCT AGTTTAGGAG TAAGTGAAAC ATTTTAGAAG AGCATTTATG TTAACCTTGA CAATAGGATG
 GGAGATTCTT AACCCCTT GTAAATATGCA CGATTGATT CTNAGTTAAA ATACACCACA GTGACAGTGA TATCATCCTT
 GTACATCTC GCCAAGTCT CTGGCAATGT CAGCATCGCC GNCAGCCGCT CTGCCTCCAT CTCCCCATAC TCATTGTTC
 CGATGGCATG TCTGATCAGC CGCGTGGCTG CATTTTGGTC AGCCTCGTGG AGCCCGCTGG CTTTCTCTG CAGCAGCAGG
 CTCGCAATG AGNCCC

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SEQ ID NO:1097: (Length of Sequence = 406 Nucleotides)

CTGACCTCGT GATCCGCCCA CCTCGGCCTC CCGAAATGCT GGGATTACAG GCGTGAACCA CTGCGCCCGG CATGATTGGC
ATTTTGGGCT AAATAGTTTC TGTCCACAGG ACCGTCITGT GCAGTGCAGG TCTTTTAGCA TCCTGGCCAC TCATAGTGCC
CGTGGTTCTC AGTAGAAGCT GTAGAGGATG TTGGGAAATT GGGGTGGGTT GGTACAGTG CCTGGCATCT GTCTCAGGGT
AAGGGCTTNG GAGGCTCAAG TGCAGAGTCG TATCTGGATG CCAGCAACAC CCTGTTGAGA AACTTTCTAC TATGGTATGC
TCATCATCTT CTGAAGATGT CAGGGCCTGT TTGTTTGTIT GCCGTGTTCT CTCACTTTTG CCTTATAATC AGTTCTTCCT
TGTTGG

SEQ ID NO:1098: (Length of Sequence = 326 Nucleotides)

GGCCCGCCCG CCTCGGCCTC CCAAAGTGCT GGGATTACAG GCATGAGCCA CCGCGCCCGG CCATGTAACA ACTTTTATAA
AGTTATGATG TGATGAGTTT TGGTGTAAAG TTTTCCCTC CTCTACCTAA AACCCCTCAT GCCTCCCAT TGCTCTTAGA
AAACACTCCC CAATCTGAAA CATGACCATT TTTGTTTTN ACACCCAGAT TGCTCCAGAC TTGGTCAGTT GGTGTCCTC
CAAGCTGGTG CTGGTGTCTT TCCGNCATNC CCCTATTAGT TTTTGAGCAC CTGGACCAGT AAGGTGTTCA GTCTCACTTT
GCACTT

SEQ ID NO:1099: (Length of Sequence = 342 Nucleotides)

GAAAACGAAC AAGTTTCAGC AGTCTAGCCT TTGGATGACC TATTTGAAAA CCACTGAAAG TCGTGGAGGA ATGGGCAAGA
ACCACCTCAT GATTCINCAG GCCATTGCTA ACGAACAGCT CATTGCTACA ACCAGTCCAG AGGTTTTATT CCCTCTACTC
CGAGCAATGA AATAGACCTG AGTTATGCTT CCTTTCATTT AATTTCTGCA GATAAATAGT TTCCTGAGCA ATGGATGCTA
TGCTTGATA CCACTCTCCA CTTTGACGCG CGGAAGTCC TTGGGNCAC AGTTACAGAA AAAATGTAAA CTCAGAGTGA
TCCTTGTTGA TATTGCTATA GA

SEQ ID NO:1100: (Length of Sequence = 301 Nucleotides)

ATCGCTTGAG CCCAGGAGTT CGAGACCAGC CTGGGCAATG TGACAAAACC CAATCTCTAC AAAAAATACA AAAGANTTAG
TCAGGTATGG TGGCGCATGA CTGCAGTCTC AGCTACTTGG TAGGCTGAGG TAAAAGGNTC ACCTGAGCCC GGAAGTAGA
GGCAGAGTGA GCCATCATTT GTTGCCACTG GACTCCAGCA TAGGGAAGGG GACTGAGACC GTCTCAAAAA AATTAAATAG
AAAGTCTTCT TTTTITAAAA TNCITCAATT CATGAGAAAA CTGCACTCAC ACATAGTGTG T

SEQ ID NO:1101: (Length of Sequence = 300 Nucleotides)

TTAAGTCAAA GGCTAGAAAT GATTAACTT AGTGAAGAAG ACATGTCAAA AGCCGAGAGA GGCCAAAAGC TAGGCCTCTT
ATGCCTAACA GTCAGAAATG CAAAAGNAAA ATTATTGAAG GAAATTAAAA GTGAAACAAC CTTATTGCTG ATATGCAGAC
AGTTTTAATA TTCTGGATGG AAGATCAAAC CAGCCACATT TCCTTAAGTC AAAGCCTAAT CCAGAACAAA ATCCTAACTC
TCTTCAATTC TTACGANGGC TGAGAGAGGT AAGGAAGTTG CAGAAAAGTT TTGAAGTAGC

SEQ ID NO:1102: (Length of Sequence = 174 Nucleotides)

GAGATCGAGA CCATCCTGGC TAACACGGTG AAACCCCTC TCTACTAAAA ATCCAAAAAA ATTAGCCGGG CGTTGCGGCT
GGCGCTTGTT GTCCAGNTA CTCCGAGGC TGAGGAGGA GAATAGGTG AACCTGNGN GGCGGGNTTG CAGTGAAGCC
GAGATCGGGC CACT

SEQ ID NO:1103: (Length of Sequence = 360 Nucleotides)

ACAAGGTCTT GCTATGTTGC CCAAGCTTGT CTCAAATCC TGGTCTCAAG CAATCCTTCT GCCCTGGCCC TCCCAAAGTT
CTGGGTATTA CAGGTGTGAG CCAGCACTCC TGGCCCATCA CAGTCTTAAA ACCAAAAGTT CTGTGTCCGA GGAAAACGAG

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GAGTIGATTGG TCACTCTATT TATGACTCAT AGCACTTACA GGCTACTTCG GCAGGGACTT NGGGTACCCC TGTTCTTGGA
 TGGCACAATCA TTATCAGCAA CAGGAACAGT TTCTCTGAGC CCTGGGCCCT GGAGAATCTC TAGCTTAGCT ATTTTAGACT
 TGGGGTCAA GAAGAGAGGC TCTTTGCCAA CTCAGCAACA

SEQ ID NO:1104: (Length of Sequence = 400 Nucleotides)

GGAAGCAAGA CAAAAAGGA CAGAAAAGCT GGTTTAGGTC TTCAGTATGT TTATTGTGCC CTCACATAGC GGCTTGATCT
 GTCTGCCCTGT GTGTTACAT AGTTAACCAG AAACGCTAGG AGGAAGTGT ACCAGTGGGA TACCTCCTTA GGTGCCAAAG
 TTTTATTTTG AGAAATAATA TTAATTTCCT CTCTGAAAT AAAATAATAA TAATANGANT GAAACCCCA AACCACAGTG
 TGAGTCTCAG GTTAGCATTT GAAAACATCT CCAGAGACAT TGTTATTCCT CAGGAGGTTT CCTGACTCC TTAAATGTGG
 CTGATGTTTC ATGGTTAATT TATTTANITT TAATAAGGTA TGAGCAATCG AAGGGGCTGA TCATCTGAGG TTTTGTACCT

SEQ ID NO:1105: (Length of Sequence = 380 Nucleotides)

CCCAGTGCAG AGGGTGACCA AGCCTGGGAA GGCCCCAGGG GTCCACACACC AAAATTAAAG GTTTATTATA CACAAGAGGA
 CGTTCTGTCC CTCANAGTGG CTGGCCACCC TCCCCACTCT GCCCAAGGTC CTGCACAGAG GTTTGTCTC AAGGGTGACC
 CTTCTTGGCC GCCCAGCT AGACCTCCGG CGGAGAGGCA CGCAGTCCAT GCTGCTGGCA CAAGTCACTT GGNACAGTNC
 TCAGCCACCG NNTTGGCATC TTGTCTTINA GGTAGGCGCC TTNTTGGCA TTCAGACTTG AGTTCCAGCC ACTCATAGAA
 TGGGACGTCC ACTATCAGGA AGNCTGCAGC CACTTATGTG TCGCCGGGCC AGAACAAAGG

SEQ ID NO:1106: (Length of Sequence = 334 Nucleotides)

TGTATCINTT TGANTTCTAA ACCCTTGCTT TTCCCACTGC AAATTGTTTT GGCTAGAGAG CAGGCTATTA AGACATCTTA
 GCCAAGCCAA TTTCTGAGA GTNCTGCAGG TACCAGGTGT TGCTGGAGCC CAGCATCTGC TCAGAGGAAG GCAGAGAGAC
 CCAGAGGAAC CCAGAATGAG ACACTCATTT TTGCATCCTC AGTTTCCAAA TTAATTTTNT AGCTCCTGGT TAGGACCCGA
 NTNACAGAGA CCAGGCAGCT NTCCAACAAG AATGCTGACA GGTTTCATTG TCCTCTAGGG TAGCTGCTGN CTAAAGAATA
 TTTGATTTTT TGGG

SEQ ID NO:1107: (Length of Sequence = 346 Nucleotides)

CTCACTTTAG TTTGAGTCAA TATCTGAGAA AAAAAGAATG GAGTAAAGC ACAGAAAGCA AAACITAGCT TAGAAAATAT
 TTCCTAATTC AAAAAATGAA CAAGTCAGAT TCTGTAAAGA TATCCAGTGA AATCTTGAAG AAATATTGTA TTGATTATTA
 ATTAANCTGA TTGAAAAGTG ATCTTGGGTT CACAATGAGG TTGTTGAACA AGTAGCATTT TCATACAATT GCAAACCAAT
 TCAATGTTTT TNCATACACT GTTACATTT CTTNCAAAA TTGATTTCT TCTTCGTGAT CCTAGTCAA TTCTGCCTTC
 TCAGTAAATC TTTATCAAGT TTGCAG

SEQ ID NO:1108: (Length of Sequence = 410 Nucleotides)

TCCTGGCGAC GTGGTCCCGG TAGGAGACTT AGACCTGAGC TGGATCTGTT GACCCCAAAT TGTGCTTTTC CCACCAAGAA
 GAAAGACAGG GAGAGAAACA TTAGTACAAG TNCTGAACCT AAATATAGCA GAGAAGAAAC ATAATCTCTG AAATCACACA
 GCTATTCGGT TTCAAAGCGT TCCTAGCGCC CAGCTCTCCT AACTCCTGGC CAGTGTCTT GACATATATG TAATACATAA
 AGACTTTGTT TCGCTGGTG TGTTCTCTG GGAAGCCTCT GACTCACCTC CGTGCTCCAG TAGCACCCTG TGCAAGCCTT
 CCAATGTGCG CCTTATTCGG TGGCGCGGAA GATAATAGTT TGGATTNCTC TGCAAGTCAG ATAATAGCTG TATCCACTTA
 CTGGGCACAT

SEQ ID NO:1109: (Length of Sequence = 352 Nucleotides)

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CGCTCGTNTG TCCCACACAA ATGTTTAAGA AGTCACTGCA ATGTACTCCC CGGCTCTGAT GAAAAGAAGC CCCTGGCACA
 AAAGATTCCA GTGCCCCGTA AGAGGCTCCC TTCTCTCTGT GGGCTCTCCT AGAAAACCAG CGGGACGGCC TCCCTGCTGA
 TACCGTCTAT AACCTTAGGG GGCCCTCGGG CAGGCAAACT CATCTCGGTG ATGGCTGTAG ATGCTAACAC TGGCCAATTC
 AATGNCACAN CTACTGGITA CCCCTTTTGA GGGGCATTTC TCCAGACAGA AGGCCCTTG AAGCCTAGGT AGGGCAGGNT
 CAGAGATACA CCGTNTTITG TCTCGAAGGC TT

SEQ ID NO:1110: (Length of Sequence = 218 Nucleotides)

GTTTNTTCA TTTATINCT CCCATAAAA CAGTATGTAC AAGGGTTTGA TTCAGGGGAG AGAAAGGATA TATGAAGACA
 CATTCTTCCC TCTTCTATTC TCTTACCTGG TTGAAATAA ATAGGCATAT AGTCCNGTTT ATTATGGGCA GGAAGGTAGG
 TAAAGATCAC CTAAGTNCIT ATGGCGTGT GGCTTTGGCA CATGGAGAAT GAGTTTTT

SEQ ID NO:1111: (Length of Sequence = 211 Nucleotides)

TTTGCTTAT GAAGAAGCTG GCCTAGGTAG GGTACAAAT GGGTTTTACT GAACITAAAC AGCTAATTGC TACATCTCTG
 AAAATAATCA GAATAGAAAA ATAGATGGAA AAATTTCAAA CCCACTGTAA GAGACTAACA TAAATCCAAT TCCAAAAGCT
 GTTAATCATA CCATCTAAAA AGAAAAGTGT CGACTAATCA TGTGTTTACA A

SEQ ID NO:1112: (Length of Sequence = 360 Nucleotides)

CCCTATAATA GTCCCGTGAA TAGGGCTAGC AGTGGGATTT TTGTTTATA GGCGAGGAAA TAAACACTCC TTTTGCTGAG
 ACTAAGAGC CAGGTTGGGG TCTCTGGACA CATAGTGCAA TCAAGGGAGG CTTAAGACAG CAGAGGCCCT CAGAGAAGAC
 GTTCATTCTC CCAGCTACTT GCTAAGCACG TNCCTGTGTA TCTGGGCAGT CCTGGGCACA CCAGTGGTGA AAATACATGG
 TCCTGCCTGC CTGCCTGGAG CTCTATTTT CTINATGGGA GAATGCTGCT CCATTTTGT ATTGGAGGAA CTTTTTGCAA
 GCAAAGCCTN TTTGGGAAA AATGGCGGGC TAGAAACCTG

SEQ ID NO:1113: (Length of Sequence = 448 Nucleotides)

GCGGGTACTG CGTAGTGAT TAGAGTTTTT NCCCTGCCG AGGTGGGATA CACGCTAGCA TCATGGTGA GGAGGTACAG
 AAACATTCTG TACACACCT TGTTTTCAGG TCGTTGAAGA GGACCCATGA CATGTTTGTA GCTGATAATG GAAAACCTGT
 GCCTTTAGAT GAAGAGAGTC ACAAACGAAA AATGGCAATC AAGCTTCGTA ATGAGTATGG TCCTGTNTTG CATATGCCTA
 CTTCAAAAGA AAATCTTAAA GAGAAGGGTC CTCAGANTGC AACGGGATTC ATATGTTTAT AAACAGTACC CTGCCAATCA
 AGGACAAGAA GTTGAATACT TTGTGGCAGG TACACATCCA TACCCACCAG GACCTGGGGT TNNTTTGTGAC AGCAGATACT
 AAGTTCCNGA GGATGCCAG TGATCAGNTG CACAGTCTTA GCGGTGGC

SEQ ID NO:1114: (Length of Sequence = 268 Nucleotides)

GGCCGCCAGG TGGTGCCATG NTCTTNTGTN CTGTGCGTCG GCGATGTGG TCATCAGCCT GAGACCCAGA TAGGCTGAAC
 CCCACTGAT GTAGGTTGCG CACAGGAGGG ACGGAGATCT TGCTGGGCA GGACGCGCG GCGGAGCGC CACTCCCTGG
 CTGGCAGGC ACCATCACCT CGTGGACGGG CCCGTAATAC AGCCACGGG GCACACCGTG GNTTCTNCGN CAGCCTGTTG
 CGAGCTTTGA TCTCTTGTA GACAAAGT

SEQ ID NO:1115: (Length of Sequence = 342 Nucleotides)

ATCAGTGCCT TCTTCAGCTC TATCTGGGAC ACCATCTTGA CCAAACACCA AGAAGGCATC TACAACACCA TCTGCCTGGN
 AGTCTCTCTG GGCCTGCCAC TCTTGGTGAT CATCACACTC CTCTTCATCT GTTGCCATTG CTGCTGGAGC CCACCAGGCA
 AGAGGGGCCA GCAGCCAGAG AAGAAAAAGA AGAAGAAGAA GAAGAAGGAT GAAGAAGACC TCTGGTTCTC TGCTCAACCC

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AAGCTTTCTC CAGATGGAGA AGAGACCATC ACTGCCTGTT TAGTTAGGCA GGAANGCAGA GGTTTTCCT TCTGGGGCT
AAAGNCTCCT TCTGACCACA CA

SEQ ID NO:1116: (Length of Sequence = 416 Nucleotides)

CACCTTTGGG AGGTAGGGAT CATAGTTCCA CTTCATTGAT GAGGAAACT GTAGTGCAGA GATGGCATACT ACTGTCCAAG
AACATGGTGG TGGATGGAAC CCAAACCCCA ACTTTTGCTC CCATGINCTC TGTCCACTGG CTATGGCTCT TCCCCCTGTG
TACAGATACA GGCTCTGGAC AAGTTCACCA AATCCCTTAG GCTTCAGCCC CCTCATCTGC AGAATAGTGG CTGGATTCC
ACCATCTTCA AGGTCCTGCG CAGCTTINAT TTATTTAAAT TTGGATTAT TAAGCAGGAA AAAAAGTAAT GGGAGTTTGT
GGGTACCAAT GGATTAAAGG GGTINAAATC TGGNGGCTNG TGAGTAAAT TAGGGTCCCC AAATGG

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AAGGACCGGG ATTCTGATGA AGCCGTGTTT CTCACTGCCT GAAGTTTCCC TTGGAGTTC CAAAGTAAAG GACACATAAG
CAACACTTCC AAAACAAGG GAACAAGGTG GTTTATGTGA AAAACAGGAA ATGGTGCATG TCATTGAGAA CTATTTTAAAT
GCAGTATGA AAAGGAAAA AAGTGCCAG TTCTTGATTT CTAGATACT GAAGAGGACG TAGCATTTC TTTATCAAAT
ATAAGGAAAA TTATTCACCA TTTTGAAGCT CACCCTAGAC TATGAAAT ATATTCACTG CAGAGCAATT ACTTCGTCA
TTACCTGAAG TGATCAGTAT CTATCTCCT TGTATAGCA TGCATCTCTC AAAAAGGCCT CCACTCCTTT CCCTCACATC
TGTGGTCATC ATGATT

SEQ ID NO:1118: (Length of Sequence = 379 Nucleotides)

GACAGCAGCG TGTCCAGGGC GGCTGTGGAG GTGTGGGA AGCTGAAGGA CCTAACTGC CCTTCTCTG AGGGTCTGTA
TATCAGAG CCAAGACAA TTCAGGAAGT GCTGTGAGC CCCTCAGAGT ACCGCTTGA GATCCTAGAG TGGATGTGTA
CCCGGGTCTG GCCCTCACTG CAGGACAGGT TCAGCTCACT GAAAGGGGTC CCAACAGAGG TGAAGATCCA AGAAATGACG
AAGCTGGGCC ACGAGCTGAT GCTGTGTGCG CCAGATGACC AGGAGCTCCT CAAGGGCTGT GCCTGCGGCC CAGAAGCAAG
CTACACTTCA TGGACCAGTT GCTCGATACC ATCCGGAGGC CTGACCATTG GGTGCTCCA

SEQ ID NO:1119: (Length of Sequence = 233 Nucleotides)

CAATATTCAA GAGTCTTTAT TGAAGACTTG AGATGGGACT TCCAATCAG AGGATGTGGG AATCCAGCT CAAATGATAC
AGGATAAACT GGGATGGGCT AGGATGGACA GGCTGTGGAT ATGGGAGTCA TGGGTCAAAG TCTTATCCCA GATGGCTCCA
GGTACAGTGG GCTTCTGGG CTGGAAGCTG GGTCTCCCC ACTTCATTCT GCTCAAAGCT TCTTGAAGGA GCT

SEQ ID NO:1120: (Length of Sequence = 325 Nucleotides)

GAAAAACAA CCATACCCCT NCTTTTGAGG AAAACTTACA AACTTTATAA AGAATAAACA TGAATCTNCT TAGAAAGTTC
CAAGATAACA TACACAAGT ANTCACCTCT TCATATATAG GCACCACACA CATAAAGATG TAGCCTAAAT CACAATCACT
TCTCACCAGG GATGGAGATA GGAATTACA TTCTTGACTT CATTAACTCT CTAATTGGC AAAAACCTCC AAGCCTTTTA
TACACATGCT GCGTGTAGGC CAGATCTCAC TCATTCTTAT AATTGTGCAA ATAATATGGA GACCAAAAGG GCAGGGTTTT
CATTT

SEQ ID NO:1121: (Length of Sequence = 161 Nucleotides)

ATTAGTATTT TTGTCTGTAT GTCCTAGCAC TGTTCAACAA CAAATTTTNC TAGTCTTGT TAATTTINAT TTGTATACA
ATGGAAGCAC AATGTTATAA GGAAAGGTAA TTTTAAGCTA ACAACCACTG CACAGCTCA GGTTTTAAAT TACAACCACA

G

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SEQ ID NO:1122: (Length of Sequence = 181 Nucleotides)

CATCTTTTITA CATCAAAGTA CTACCAAGTA AAGAAITTTAA AAATTACTTG TCTAGTCATG ATATATTTTC CTNCTGCTGC
TGAAAAATCC CTGCTTTATT ATTTTCATGTC CCTTTATCAT TCATTTGATG ACACTGACAG CAACCTGCTG AACAAAGTTA
AGAATAGCTG ATATTTACTG A

SEQ ID NO:1123: (Length of Sequence = 174 Nucleotides)

CCCTAGAGTT AAATTTCAAC CATGAAACAT CAGCCACATG TCATATCAAT TCAAGTGTGT AACATTGATA TAATCGGGTA
CACCACAGCA GCACTGACAG AAACAGAAAT GATTGAGAGA AAGCCAATTA AAACAGCCAG GGGATAAAGC AGATCTGTAT
GACATTAGCT TTTT

SEQ ID NO:1124: (Length of Sequence = 232 Nucleotides)

CTTTTAGCAG AGACGGGGTT TCACCATGTT GGCCAGGATG GTCTCTTGAC CTGTGATCC ACCCGCCTCG GCCTCTCCAA
GTGCTGAGAT TACAGGCATG AGCCACCGCG CCTGGCCAG GGAAGGCATT TTTNAAGAAA TAATAGTTGA ATGAGATCT
GATAAAGAA GTAGGAGCAA AATNGGGGG GTGCAGTTTT CCAAGAAGAG AAGACAGTAC ATATAAAGGG CT

SEQ ID NO:1125: (Length of Sequence = 233 Nucleotides)

GATACTATGG GTTCAGTGAC ATAGAGACAC AATTGAATTA GCAATGAGCT TCACTCAGGA GCCAGAGAAT GGGTTTNTNT
CTAAGAGATG TTTTAAGTAA CATTTAAATG GCACTGCTGA TTGATACCAG CATCAGGAAG CTGAGGACAA GAGCTCTCTG
AGAAGGAAGT TGCCATATTA CAGAAGTGAG GTGACCAAGC ACTTNTTGTA GGTCTGTACA TTAGACATT AAT

SEQ ID NO:1126: (Length of Sequence = 258 Nucleotides)

TTTTTTTTTT TCCTAGGGG CGCAAGACGG CTAATTTATT ATAATTCTC CGCCGAGTT GCCCTCTGGC GCCA...ATGC
AGAACGGAGC GCCCGGGATG CAGGAGGAGA GCCTGCAGGG CTCCTTGGGT AGAACTGCAC TTCAGCAATA ATGGGAACGG
GGCAGCGTT CCAGCCTCGG TTTCTATTTA TAATGGAGAC ATGGAAAAA TACTGCTGGA CGCACAGCAT GAGTCTGGAC
GGATTAGCTC CAAGAGCTCT CACT

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GTGTGAATAG GCAAGCACTT TGTTTGTTGT ACTAAGGAAC TCAAAATGAT AGGCTTTTIG TCACCATGTG CTTCCAGGNT
CTCTGTTGCA TGAGCAGAGA TAGAGGATCT TGCACAAACA ATTAAATGCT CTAGCCATAA GTAGTGCAAG TTTCCNTTGC
TTGAAATTTA CTGCTGATAG CCACTTGGNC ACACCTTACT TCCAGAGGCT AGGAAGTACA GTTTTCCAC AGTCTAAGAA
TGAAAGAGNA TTAACCACAG TAATGCATAG CACTCATACC ATGGATGACT GGATAATTTT AAAAGAATGG GAATATGCAA
G

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ACAGCTCAAT GACTTATCAC AAAGCAAAGC CCCAAGAAGT CACCACCCAG CTCCAGAAAT AACACATTGA AAAGCTAGAA
AAATCTCAA TTGACATCCT AACACCACAA CTAAAGNTC TAGAGAACCA AGAGTAAACA AACCACAAAG CTAGCAGAAG
ACAAGAAATA ACCAAGCTCA GAGCAGAACT GAAGGCAATA AAGACACAAA AAACCTTTAA AAATAGTCAA TGAATCCAGG
AGCTGTTTTT TTGAAAAA

SEQ ID NO:1129: (Length of Sequence = 163 Nucleotides)

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CAGTGGTACA GCAGCAGCAG ACACGCATCG CAGAGCTGGA GAAGACGTCA GCTGAACACA AACACCAGCT GGCGGAGAGA
AGCAAGACAT CCANCTGCTA AAGGCATACA TGCATGCAAT CCGCAGTGTG AACCCCAACC TTCAGAACCT GGAGGAGACA
ATT

SEQ ID NO:1130: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTACTGT TCAACAGCA ATGTTTAGIT GTACAACACA TAAAGTCTAG
CAACAATTAC AGGNCAGTT TGAGTGTCTG TTTGCTTGTT TTCAATTGGG AAATTTAACT GTAATGTCAC CGTAAGATTG
GCTGGGACTG GTAACATTTA AGAAACGGGT TGINCTTGCA TCCCTAGGC GTGGGCTCT TGCTCCATCA GGACTTGGIT
GTAGATGAAT GGCCACAAG TCACCAGCCT TTGAGCAAGT TGTGTCCAGG TGGAGACAGG AAGAGGGTGG GCAAAGGGGA
ATTCTATAAA GACACAGTGT NTGGGGCAGT GGCAGTCAAC ATTGCAAAC ATTCATGCAT CT

SEQ ID NO:1131: (Length of Sequence = 406 Nucleotides)

ATGCTAATTC AGGCTCCACA GATAGINCTG GTGATGGGGT TACATTTCCA TTTAAACCAG AATCCTGGAA GCCTACTGAT
ACTGAAGGTA AGAAGCAGTA TGACAGGGAG TTTCTNCTGG ACTTCCAGTT CATGCCTGCC TGTATACAAA AACCAGAGGG
CCTGCCTCCT ATCAGINATG TGGTTCCTGA CAAGATCAAC CAACCCAAAT TGCCAATGCG AACTCTGGNT CCTCGAATTT
TGCTTCGAGG ACCAGACTTT ACACCAGCCT TTNCTGATTT TGGAGGGCAG ACACCTGGTG GAAGAGGCGT ACCTTTTTTG
AATGTTGGGT CACGAAGATC TCAACCTGEN CAAAGAAGAG AACCAGAAA GATCATCACA GTTCTGTAAA AGAAGGTGTA
CACCTG

SEQ ID NO:1132: (Length of Sequence = 400 Nucleotides)

ATTTTTGGIT ACTTCAGGCA GGAGGGTAGA CATAGCACTT ATCTGGAITG GATGTAGCCA CAGGATTAGA ATTGTTGGGT
CATAAAATAT GTACATGTTT AGCTTTAGTA GATCTTGCCT AGAGTTTAAA AAATTAAAAA TTAAATATT TTTTAAATTA
CAATAAATTC AGCTAATTTT AATTTTAGAT AATTTTATA ATGTAGTTGA TCTTGGTTTT AACCAGAGCA TGTNGCTGGA
TTTTNCTCCC CAATCGAACA CAGTAGAGAG AGAAGGTGGC GGGTCTTAG TGATACCATG CACTTTTTTT TAGAACTTCA
GTGCTGTATC CCTTCATTTA CAATGTATGA TGAAAAATAC TAAGAAGGG ATNGTGGTGG TGGTGAGGGA GGCAGGAGAG

SEQ ID NO:1133: (Length of Sequence = 347 Nucleotides)

CCCAGGGGCG GCCATCCATG GAGGAGCTCA TCCAGCAGAG CCAGTGGAAC CTCCAGCAGC AGGAGCAGCA CTTGCTGGCG
CTCAGACAGG AGCAAGTGAC AGGGCCGTG GCCACGCGG TGGAGCAGCA GATGCAGAAG CTTCTGGAGG AGACCCAGCT
AGACATGAAC GATTTTAAAC ACCTCCTGCA GCCCATCATC GACACGTGCA CCAAGGACGC CATCTCGGCC GGGAGAACT
GGNIGTTTCA CAATGCCAAG TCCCGCCGC ACTGTGAGCT GATGGCCGEN CACCTCCGA ACCGCATCAC GGCINATGGG
GGCACACTTC GAGCTGCGGC TGCACCT

SEQ ID NO:1134: (Length of Sequence = 389 Nucleotides)

GGTCCAGGCC TGCAAGACTT GCCTAGTGAG AAGATATAGG AATGGGAACC CAGGTAACAG TCTGGCCACT TTNCCATAGG
GCTGCTGCAG TATGCCCAGG GCGCGCTCCA GTCTCTAGTA GCCTCANATT TTCCAGTACC TGGAGTTATC ATCAGTGAAG
CCTGTGAAAC AGCAAAGATG GCAGCCTACC GCTCCCTTTG GAAGCTTTTC CCTAGGGAGG TATGAATGAN CTNITGCTG
GCCCAAACAC ACCGTAGGA GGTGGCTINGA GACCCAGTT TGGAGGTTTT GCCCAGTGAG GAGGAATGGC ATTGGGAAAG
TGCTTAAAAA AGCAGTCTGG GCCTCATTTT TATAGAGCAG CTGTGCTAAT GCTGAGGGGT CCACAATCA

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SEQ ID NO:1135: (Length of Sequence = 402 Nucleotides)

GCAGAGGCTT AAAGAGTGCT TATTCAGTGA GGCTTGCCCT TNCTTACTCC TTCTGGGAA CCCATTTGGC AACAAAGTGAA
GAAACCTAGG CCAGCCTNCT TGAAGATGAG GGACCAACGG AGAGAGAGGC TCTGCTGTCC TAGCCCTCCC ACAGAATAAG
TAAGCCTAGC CAACACCACG TGGAGCAGAG ATGAACCATC TCAGTTGAGC CCAGCCCAA TTGCTGACCA AAAGAATTGG
GAACAAATAA ATAATTATTG TTTTAAGCTA CTGTGTTTCT GGGTGGTTTT GTATATAATA GTAGCTACCT GATACATTGG
GATGACCCCA ATTACTTGAA CTTCTCTTAG GCCTGTTTAA TCACGTGCAA ATAGGGGATA ATTTTAGTAA TTINGGGTTG
CT

SEQ ID NO:1136: (Length of Sequence = 381 Nucleotides)

CAGGTGCGAG CCACCACGCC CAACCCAGAA CTCTTTTTAT TTTGCAAAAT TGAAATCTA CCCATTAAAT AGCAACTCTN
CTTTTCCCTT CTCCCCAAG CCCTTGCCAA CTGCTTTTCC ATTTCTATGA CAATCTCTAC TCTAGATACC TCATAGAGGG
TGAATCATAC AGTATTTGTC CTTTTATGAC TGGCTTATTT CACTTAGCTG CTATATTATT AATACCAGCT TTCTGGGGAT
ATAATTCACA AACTGCAGAA TTGAATGGTT TTNAGTCTAT TCACATOGGA TATGTTTTTG AAGAGACAGT AAAACCAATC
CTTTTTTCT TAGGTTCTCA GACACACACA TGCTTCTTAA TCTGGCAAGT CCGTTTATAA A

SEQ ID NO:1137: (Length of Sequence = 325 Nucleotides)

TATTTTTTGT ATAGACAGGG TCTTGTTATG TTGCCCCGAC TGGTCTCGAA CCCCTAGTCT CAAGCCATCC CCTGCCTTG
GCCTTCCATT CCTCTACTTT ATACCACGGT TATTCACCAA GCCTGTCTTT GTTCAGTGTA CTTCCTCATG GAAAACTGA
GGTGATATTT ACCCTGGTTT TTCTACCACT GTGTAACGT CGCTAGTACC AGCTCAAAA ATAAGAAATG AATAAATGAG
TGATGACTAT CACTATGTTG CTCAGGCTGG ACTTGAACCC CTGGGTCCA GTGATCTCC CGCCTCAGCC TTCCAAGTAG
CTGGG

SEQ ID NO:1138: (Length of Sequence = 422 Nucleotides)

CAACACACAT TAGCCTTAAC AACAAAGAGC TAATCTTATG TAAAGAACTC TTACAATTCA GAAAGAAAA GATCCTAGTG
AAAATGTGGG CAAGAGATAG CAAAAACCA GCCATATGAT AATAATAGTC AATAAGTGAA TCTGAATGAT GTTATCTNCT
TTTGTCATTT TAGAAATACA AATAAAAATG ATGATGAATG CNCTTGCTTA CTAAATTAGC AAAANCTGGG AAAAGATGAT
GATATTCAGG GTCAGATAAA GGGAAAAGGG TGCCCTTCTA TTGCAGTTTG GAAAGTAAAT TGGCACTGAC TTTTAGTGGG
GATAGTCTTG TAATATGGGT CAAANGTCTT CAAATCGTGT CCACATTTTG GGGCCTGCAA TTCCACTTCT AGGGATTTAT
TCTAAGGAAG TACCTAAAA AT

SEQ ID NO:1139: (Length of Sequence = 367 Nucleotides)

ATACCGAGAA GCATGCAAGC GGTGGCTCCA CCGTCCACAT CCATCCCCAA GCTGCTCCTG TTGTCTGCAG ACACGTTTTG
GATACACTCA TTCAATTGGC CAAGGTATTT CCCAGCCACT TCACACAGCA GCGGACCAA GAAACAAACT GTGAGAGTNA
TCGGGAAAGG GGCAATAAGG CCTGTAGCCC ATGCTCCTCA CAGTCTCCA GCAGTGGCAT TTGCACAGAC TTCTGGGACT
TATTGGTAAA ACTGGACAAC ATGANTGTNA GCCGGAAAGG CAAAGAACTC CGTGGAAAGT AGTGCCAGTG ANGCGCTGGC
GGTGAGGGGG TAAACCTTTT NCATACAGCC TTCGAGGCT CTCCACT

SEQ ID NO:1140: (Length of Sequence = 412 Nucleotides)

ATCCAAAGGA TATAGGCAAG CATCAGATAC AGCCAAAGCA TTCTTTTCTT AAAAGAGTCT GAACGCATCT NATGCAACAC
CCAAAAGTAT CCTTTNCTC CTCGTTACAG TATGTTTTGG CTTTGGAATA AATGATTAGT TATTGAACAA TATATGGAGA
AATATCTTAC AAAAGGAAGT CATTTCCATT TTCTAACATC TTTTACATTG CACTAATTAC ATGGTTTAAA TGAATATCCC
TAATCTTCAT CCAACTACAC CCCATGAATT TNAGGTTTAT TTAATCAACC TAGTAGACC AGATATATCC TTCTAAAATC

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ATTGTAGAT AGAGGATTCT CCTTTTGCT AGTAAATACC ATTAACATAT TINCAGANGG CCTGGTCTAG GGTCAATTAT
TCCAGGGCCT CT

SEQ ID NO:1141: (Length of Sequence = 410 Nucleotides)

GTTAACCCTGT GGCOCCTCC GGGTATCCGG CGCCTGANGT TTTAGCTGCG GTGGCGGCGG CAGTOGGGAC CGACTNAAGA
TGTCATTGT CAGAGTGAAC CGCTGTGGTC CCOGANTTGG TGTAAGAAAG ACACCGAAAG TAAAGAAGAA GAAAACTTCA
GTGAAACAAG AATGGGATAA TACCGTGAAT GATCTAACCG TTCAATCGGC AACTCCTGAA GATCTGGTAC GCCGTATGA
AATACACAAA TCGAAGAATA GAGCATTAGT AACTTGGGAA CTCCAAGAAA AAGCTTTGAA GAGAAAATGG AGGAAGCAGA
AACCAGNAAC TTAAATCTT GAGAAAAGAA GATTNGTCTA TCATGAAGGA GNTTCTTTC TGATCAATAC CAGATGCAAA
GATGTGTGG

SEQ ID NO:1142: (Length of Sequence = 392 Nucleotides)

TTTTTTTTT TTTTTTTTT TTTTCNNGG ATTGAATGTC TTTATTAAT AAACGAGTAA ATGGTAGCAC AAATCACCAT
CAATATTTTT GGAAGGATTG GGGACAAGAT GTCGAGTCAG AATATAATTN TCCATTTCAG GGTCTCAATG TAGCTGAAGA
ACTGTGCCCA CTGATCAGTA TTACGTATTG CAAATGCAGG AGGTAAGGCT AAAATAGGAC TTATGCGGTT CAGAAGATTG
ANITTGAAAC CTTAAAACT ATCATAATAG TAGGAATGCA TGTTAAGATT TGATAACTTT CTTTAGCTAG AGTTTTCAC
CCACAGTTAG GAGCAAAGTT GTAAAGTGAG TAGGINTGAA GAAGGGACAC TCTTTTGAGA AAAGAAATTN GC

SEQ ID NO:1143: (Length of Sequence = 200 Nucleotides)

ACTTCTCTC TCCTGGCATC TGCTATAAAA ATAAGAAGGA GCAATATTC TTGCTCTTT TTATCACCTG ANCTGAAAAC
CCATTGTAAC TGCCATGAAA ATAAGCACTG GTCCATGAGA CCAATGCCCA GAAAATTCAG GCTAAGATTG CTGGAAAGTG
GGCTGTGGGC ATTATTIAAA ACACACACAC AAAATTAC

SEQ ID NO:1144: (Length of Sequence = 333 Nucleotides)

AACAGAAGCA TGTTATTICA TTCCATTCC CAGAAAGGGA GTTAATGAAG ATAAAAATTT ATTTTAAAG GTCTTTATTG
AGAGAACTT TGTCTCTGA TATGAATAT TGCAGATGTT TTTATAAATA CTTTCATTAA AATGATGTAA ACAGTAGTAC
CCAACACTGT AAACCTAGTG AAAATAGTAA ATGATTCTTT TATTACTAAG ACTGTCATGC ATTCTGAAGC AGTTGGCTTT
TTTTTAACCA TAGGAAGTCA TTTCCCTCTA GCTCCTTCCC TTCTACTCTC CTGCTCAGAC CATTAGTAGG TACTTTGTIA
AATAAAAAAC TAG

SEQ ID NO:1145: (Length of Sequence = 225 Nucleotides)

TGGGTTCTG ATCCGAGAAA AATTGAAAGA CAAACATGGC TGGGGAAGC AAAACGCTGA CACACAATTC AGGTGGCCCA
GCACTGCTGA CCTGCAATCC ACCCCACCCC AAGGCAGCCC TTTCATCCA AAGTGGACAG AGTGGGCTT ATCCAGANT
CACTCAGGAA GCTTCTTCAA ACATATGACT GCCACACCCG CCCCAGGT TCAGAAACAT CTTCG

SEQ ID NO:1146: (Length of Sequence = 223 Nucleotides)

AAGGNACAAT ATTATCTTAA ATAATTAGA TTTGGAAGAC ATCAATGACT TTGGAGATGA TGGGTCCTTG TATATTACTA
AGGTTACCAC AACTCAGNT GGCAATTACA CTGCTATGC AGATGGCTAT NAACAAGNCT ATCAGACTCA CATCTNCCAA
GTGAATGTCC CTCCAGTCAT CCGGTGTAT CCAGAGATC AGGCTAGAGA GCCTGGGGTA ACT

SEQ ID NO:1147: (Length of Sequence = 389 Nucleotides)

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ATTTTCAGTGG CCATTAAAGAC CCTGAAAGTT GGCTACACAG AAAAGCAGAG GAGAGACTTC CTGGGAGAAG CAAGCATTAT
 GGGACAGTTT GACCACCCCA ATATCATTCC ACTGGAAGGA GTTGTACCA AAAGTAAGCC AGTTATGATT GTNACAGAAT
 ACATGGAGAA TGGTTCCTTG GATAGTTTCC TACGTAAACA CGATGCCAG TTTACTGTCA TTCAGCTAGT GGGGATGCTT
 CGAGGGATAG CATCTGGCAT GAAGTACCTG TCAGACATGG GCTATGTTCA CCGAGACCTC GCTGCTCGGA ACATCTTGAT
 CAACAGTAAC TTGGTGTGTA AGGTTTCTAA TTTCGGACTT TCGCGTGTCC TGGAGGATGA CCCAGAAGC

SEQ ID NO:1148: (Length of Sequence = 386 Nucleotides)

ATTAAATGCT TGCCATCATG AGCAGAAGCA AGCGTGACAA CAATTTTINAT AGTGTAGAGA TTGGAGATTC TACATTACAA
 GTCTGAAAC GNTATCAGAA TTTAAAACCT ATAGGCTCAG GAGCTCAAGG AATAGTATGC GCAGTTNATG ATGCCATTCT
 TGAAAGAAAT GTTGCAATCA AGAAGCTAAG CCGACCATT T CAGAATCAGA CTCATGCCAA GCGGGCCTAC AGAGAGCTAG
 TTCTTATGAA ATGINTTAAT CACAAAAATA TAATGGCCT TTTGAATGTT TTCACACCAC AGAAATCCCT AGAAGANTTT
 CAAGATGTTT ACATAGTCAT GGAGCTCATG GATGCAAATC TTTGCCANGT GTTCAGATGG GGCTAG

SEQ ID NO:1149: (Length of Sequence = 364 Nucleotides)

GGCAACAGGG TGAGACTCCA CCTCAAAAAA TAAAAAAA GAAAGATATT ATTCAGAAA AGAAGTTAGG AGCCAGGTGC
 AGTGGCTCAT GTCTATTATG CCAGTACTTT GGCAGGCCAA GGCAGTAGGN TCACTTGAGG CCGGGAGTTC AGAGACCAAT
 CTGGGAAACG TAGCAAGACC TCGTCTCTAC AAAAAAGTG TTTAACAAAT TAGCTCAGTA TGGTGGCACA TGCTGTAGT
 CCCACCTACT CAGGAGGCAG AGGCAGAAGG ATGGCTCGAG CCCTGGAAAT CAAGGCTGCA GTGAAGTAAG ATGGTGCCAT
 TGCACTCGNG GATGGGTGAC AGAGCAAGAC TCCATTGCCG CCAG

SEQ ID NO:1150: (Length of Sequence = 267 Nucleotides)

GACAGGTGTA ATCTAAGCTT AATAAAACCC CCCGGAGGCT GCACAATINC TTGGCATCTC TCCCCTGCCC TCTCCATCCG
 CATATTCAAT TTGGAGTTTG GAGAAGTATC TAGAATCTNC TCCCACCCCA AAATGCCAG CAGAGCCCCC CCGCGCCCC
 CGCACCCCTT GGAGCTGCGG CTGTCTGAAT CGTTGAGATG TCTGANACTG TCGGGGTTC CTACCTAGTG CTTCAACCAG
 ATCACCTCAC TTTTGAGTTT CCTTCCT

SEQ ID NO:1151: (Length of Sequence = 386 Nucleotides)

GGAAGACGAA GGAGGAGTAA AGGCATGINT CACATGCCAG CAGGCAGAG AGCGTGTGCA GGGGAAGTGC CCCTTATGAA
 ACCCTCAGAT CTCGTGAGAC TTATTCATA CCATGAAAAC GGCACAGGGA AAACCTGCCC CTAAGCTTCA GTTACCCCCG
 ACAGGTCCCT CACATGACAC ATGGGGACTA TGGGAGCTAT AATTCAAGAT GAGATTGGG CAGGGACACA GCCAAACCAT
 ATCAGATACT TACCACATTA GACACTGACA GACAGCTCAC CACAGATTCT GGGCTCTATT CAAGGTGTTG ACTTTGATCT
 TTTTCCAGTT GTAAATGTTT CATCCAAAAA AACTGTGATT TTGGCATAAC TTTTTCAGG AGTTGC

SEQ ID NO:1152: (Length of Sequence = 239 Nucleotides)

GCAATCTTTT GAGTACTTA CTTTGAGTCT TTGTACCTT TCCTCTGATT TTTTCACATG GTTTAACTCA GTGTACCCAA
 GAGTACTAGG TGCACTCAAT TCTGCTATTA ACTCTATAAG CAAGTNCITTA AGAAAGTTAA TGTTAAAAA TAATCTTAAA
 ATTGTCTTGA TAGGAAAAAT GTATTGAAA TAAAAAAA TTCTTATGTT GACTTCTTGG TTTTGAAACA ATGAATATA

SEQ ID NO:1153: (Length of Sequence = 275 Nucleotides)

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CAACCTCCTC TTCAGTGTCA AAAAAGCCAC GGTTAGACCA GATTCCTGCC GCCAACCTTG ATGCAGATGA CCCTCTAACA
 GATGTATGTT TTGTTTCCTC CTTTCATCTC TAATAATTGA TTTACCATGT TTTTCTAAAA TACTTGTTAT GTCTTNCIT
 TAAGAAGTGA CATATATTTA TGTTTAGTTA CTGTTATTCA AATATAGCCC TGACCTCAGT GCTAAACTTT ATAGTTGATT
 TTAAAATCAA AAGTATTATT TTGTGGGACT TTAAG

SEQ ID NO:1154: (Length of Sequence = 203 Nucleotides)

CCTAAATCTT AAACCTTACA ACAGTTAAAT AAGACCCCTT TCAAAGGGAT TAACACACTG AATATTATAT ACATACAGAT
 TTATATTTAT GCGCTATACA CATATATGNN CTTTATCTGT ATATAAATAT GTGATGATAA TGATAAAAGG ATAATGATTA
 CACGTAGGAT AAACATTTAT CAAAATTGT ACTATAAATA ATA

SEQ ID NO:1155: (Length of Sequence = 343 Nucleotides)

GAAAAA AAAA CACTAAGCTA TTTTGAACA ACTGTTCTAC ACAGAAGAGA GCTTCTCTTA ATTTAAAAA AAAAAAATC
 CCAATAGGC ATTTTAGGC ATTAACCAA AAAGAGAATC CAAATGAAAT ATTATACCTG ATGTTCAATT TTAATAGCAT
 CTGTATAAG GTATGCTTCC TTTCATTGA NTACATTTCT GNACATGTAT GTTATAAAAT CCAGGNAACA GCCAAACCAC
 AAGTTAATC TTAACAATGA ATATACATAG TTAACCCTAT AGTAAGCAGC CCCTTTGAAA AGCACTGATG CACCCAACAN
 TTATATGGTT CCATTTTATA AGG

SEQ ID NO:1156: (Length of Sequence = 396 Nucleotides)

CCCACCAATT GCCATTAAAC CTCCCAATCT TTAAGGGGAG GNTCTCTACT TACTGTTTCA AGGCAAAAAG ATGATTAANC
 TATCTACAT GGTTGTAAT TGGGCCTAAA ATAAATGACT CTAGTGGTAG CATTTCATGT AGGCAGGTCC AAGGAAGACA
 GATTGTAGA CAGAGTTGGG AAAAGGGTCA AAGAGCCAAT GAGTCTCCCT ATCTGAGGG ATGCTTGAC GGAGCCACAG
 CATGANTCA TGTTTCTCTG AATCCATCTC AGTTCATGTG ACAGGATGGA AATGCTTCCT TTCTTAGCCA GTGTGCTTG
 TAACGAGTTC CTTGCAGCTC AGGGAAGGGA GCAACATGTA CTGCTTTGTT GCTTCCTGTA TAGAGAAGGC AGGAAT

SEQ ID NO:1157: (Length of Sequence = 269 Nucleotides)

CAGGCTCTCA ATCGTCTCC CAGGCTGGAG TGCAATGGCA CAATCTCAGC TCACTGCAAC CTCCACCTCC CGGGITCAAG
 TGATTCTCCT GCCTCAGCCT CCTAGTAGC TGGGACCACA GGCACTCGCC ACCGCAACCA GCCAACTTTT GTATTGTAG
 TAGAGACAGG GCTTCACCAC GCTGGCCAGG CTGGTCTCAA ACTCTGACC TCAGGTGATC TGCTGCCTC GGCTCCCAA
 AGTGTGAGA TTCCGGCGTG AGCCACTTG

SEQ ID NO:1158: (Length of Sequence = 190 Nucleotides)

CTTATAGTT AATTCCACGG CAGATTTTCA TTTCTATCGA ATATATTATA TGTAGAACT AGGGCCTTAA ATAATTAAGC
 TGACTTINCC TATTAGTTAT TCCTTAAGAT AAAATTATGC TGGTGAAAT NACTGTINGAA TTTCTCAAGA AATTAAGCTC
 TATAGAGGCA TAAGTAATCG AAAGACTTTT

SEQ ID NO:1159: (Length of Sequence = 340 Nucleotides)

GGGCACTGAC TTCCTGGGAG TGTAAGCINN TCACCTGGAC CCCACAGCCA GTGAGCAITTA GTGCTTATAT TCCATCCTCC
 AAAGCTCTTT CTTCATACCA GACCACACAT GTGGCCCAAG GAGGGATATT TACTCTGCAC TTTTAGAGTT CTAGAAAACA
 TTGTTTAGTG GTCTGGCATC ATCTATATTT ACTTGGCTTG ATTTGGGATA GAGTATAATC CTAGTCTCTG ATGAAAGGAT
 TTINATGAGT TAACCTTATG GGGTGATGGG ATTTATGGGA TTATTTCCAC CCTTAAATG ATTTTGTGGG GAAAAAAGT
 GTACTAATCC CTAATTTAGG

SEQ ID NO:1160: (Length of Sequence = 215 Nucleotides)

GTAAACAAAT CAATTAACAT GATTATCCCA GACCTTTCTT TTCTTACTGG AAAAAAGAGG GCATTAAACT GGATGATGAC
AATAACACCA TAACTACAAG CTTTATATAA AGTCCTTTAT ATACAGTGT AATACAGTGA AAGNTCAACC TTATTGAAAG
AGGTCTGGCT TCTGCCCTCA GCTACTGGGA AACAATCACT AGGCCTCTGG CATGT

SEQ ID NO:1161: (Length of Sequence = 298 Nucleotides)

AATCTTTAAA ACTACTTTGA ATCTTATAGA AACATCAGAA TCTTTTGAAT TCAAAAGAAG CCAGGGACTC TAGCCAAAGT
GGAGTGGTTT TTAACTCAA GGATTTAGGA CCTTGGCTGA ATACAAACAT TGAATGATTA CTCAGTAGGT GCCAAAGCTC
AGGACTTTAG ACAGAGTCAG AGTCCAGTTT GTNCTGAAAC ACAATTTGAT TTCAACTATT GTTTTAAAGT AGAGAGGAAA
GTGACATTAT TATGAGTGTA AATTINCIGC TTTTAAAGTA GAAGTTACTG ACAATIGA

SEQ ID NO:1162: (Length of Sequence = 163 Nucleotides)

GAAATAAGAA ACAGCTTGTA TATAACTAAT GCTTTGAGGG AGAAATTCAA ATGGCTATGA AAAAATATTT ATAATTCAAT
GATAATAAAA ATCTTACACG TTAAACTTG AGAATGTAGT TAAAGCAATA CTGGNCATA ANCTTAGCAC ATATTAGTAA
AGA

SEQ ID NO:1163: (Length of Sequence = 393 Nucleotides)

GCCAAACCA GGAGCATTTT ATTCAGATGT TAAATGAACC AGTTCAAGAA GCTGGTGGTC AAGGAGGAGG AGGTGGAGGT
GGCAGTGGAG GAATTGCAGA AGCTGGAAGT GGTCAATGA NCTACATTCA AGTAACACCT CAGGAAAAAG AAGCTATAGA
AAGGTTAAAG GCATTAGGAT TTCTTGAAG ACTTGTGATA CAAGCGTATT TTGCTTGTA GAAGAATGAG AATTGGCTG
CCAATTINCT TCTACAGCAG AACTTTGATG AAGATTGAAA GGGACTTTTT TATATCTCAC ACTTCACACC AGTGCATTAC
ACTAACTGT TCACTGGATT GTCTGGGATG ACTTGGGCTC ATATCCACAA TACTTGGTAT AAGGTAGTAG ATT

SEQ ID NO:1164: (Length of Sequence = 260 Nucleotides)

TGCATTCTTG CCTCTTGAC AAGTTCGCT TCTTTACAAA GGACTTTGCA AGTNCCTCAC CCAGACCATC TCACCTGTAC
CGAAATAACC TCCCCTACTA GCGAATGAGC AACTTTGGAG CAGAAAGCAG AACTGCATC ATATTTCTCT TACTATGCAA
ACTGGTAGCT CAAACCTCAT ATGACCTCAA AAAACTATAA TTGCTTCAAC CTAAAAAGC TGATTGTAA AAAAAAAAAA
NGCTGTGGTT GCACACAGT

SEQ ID NO:1165: (Length of Sequence = 330 Nucleotides)

CATTGGTATT TAAAAATGAA TATTAATATA ATGAAATGNN TTGCCTTTT TGTAGGCATA ATAAGCCAAA TACTTTTTTA
CCCAAAATAA TTTTINAGAGA AAATGATGTA ATGAAAAATT GTACCATGAA TTAGGAGCAT AGTTTTTNC ATTAAACGT
CACCATTACT TAAAAGATGA TTGATTATTG CTATACCAA TCAGATGAAC TCTGTTTATC ACTTTCTTNC TCTGTCCCCA
AACAATTGG TTCAATCAGA CTGAAATGTT TGTGCTTCA ACTTATTAGA ATGGAAGATA ATGCAGATAT TTCTGTGGGA
AATAAAATAA

SEQ ID NO:1166: (Length of Sequence = 312 Nucleotides)

ATTGGAGATG CCTTTGTCAA ATTTNCCAT TTAAATGGC CAGGAAAAAC AATAATTATT TTCCTGATGC TGAGGTTTTA
TATCTTAGTA GAAGAACTTA AACTATGACT TGTATTCAAG TCTAACAGGA ATAGAGGTAA TGANTGAAAG TAGTCATTGA
CCTGGGACAA GATCACTTTG AACATGACAC TATTATACAA AGTGTAATAT TTATTTTTAA ACAACCACTT TTCAAAGCA

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GTGTGTCATA CATTCCAAAG AATAAAATGC TAGCTACTAG GTTTTGAGAA GCAGAATAAA ATATGATACT GA

SEQ ID NO:1167: (Length of Sequence = 305 Nucleotides)

AGGAAAAGGA TTGATCACAG GAGAGGTACC AAGGGAGTTC CCAGAATAAT AGAAAAGAGG NTCTCAAGA AGACAGTCAC
GCAAGAGACC AAGAGAAGAG CTAATCCAAT TGATGCAGGA GGAAGTAGAG CTTCAGAAAG AATGTCTCAA AAAAGAAAAA
AAAAGAAAGG AGTGGGTAA GTATCTGATG ANTTINCCAA ATTGAGAGGA GTTACATAGC TCTATTGAAA ATCTTAGATA
AANNIGATTG ATAAATACAT AGANCATAAA GCAAACTCTG AAATAAGGCA ATTATCAACT CCAGG

SEQ ID NO:1168: (Length of Sequence = 342 Nucleotides)

AAGGTTTTAG TGATGATCA GTGAGAAACA TATTTGAAGC AACAGCACA GTAAGTGGAA GCTGTAGGTA CTCAATAAGT
GTCAGTTTCC TTCTCTTCT AAAAGCTGTG CTTTCAAGTC AATTGTATGT CTAGAGTCGC ACTGTCTGGT ACAGTGGCCA
GTACTAGCCA CATATGGCTC TCAAGTACTT TAAAGAGGGC TAGTCTGAAT TGATATGTTT CATACATGTA AAATACTTTA
AAGAGGGCTC ATCTGAATG ATATATGCCA TGCATGTAAA ATACAAATCA GATTTCTAAA ACTTTGTACC AAAAAATACC
ATAAATAAC TTACTAATAA TT

SEQ ID NO:1169: (Length of Sequence = 397 Nucleotides)

GAGACGGAGC TCNTCTGTC GCCAGGCTGG AGTGCAGTGG CAGATCTTG GTTCACTGCA AGCTTCACCT CCCAGGTTCA
CACCATCTC CTGCCTCAGC CTCCCGAGTA GCTGGGACCA CAGGCGCCCA CCACCAAGCC CAGCTAATTT TTATATTTT
TAGTAGAGAC GGGGGTTTCA CGTGTTAGC CAGGATGGTC TCGATTTCTT GACCTCGTGA TCCGCCCGCN TTGGTGTCCC
AAAGTGCTGG GATTACAGGC GTGAGCACCA ATGCCAGCC TTGGAGACA CTTTGTATG CCACAATCA GGGTAGGGAG
GGCTGGGAAA TATTACTGGT GTGTAGTGA TCGAGGCCAG GGATGCTGCT AGACATCTG CAATGCACAA GGACAGG

SEQ ID NO:1170: (Length of Sequence = 422 Nucleotides)

GTTTTAAAGC CTCGGACAG AGCAGTATTT CGTTTAAAC TTGTTTTTT TAAAAGCTT ACAGTGTGTT GCTAATCTC
CTCCCTTTT TACAAGACGG GGGCCGGAGG GTGGACACTG GTGGCAGGTT AAGGGATACT GTCATTTAA GAAGCCTGCA
GATTGAAGTG TAAACATGA GAAATTAGGG GCTGATTTTT TAACTGTGT GAGATATIAA CCAGCCGCC TGTATAAAA
TCAGGAAATC CAAACAGCGA TTTACACCGA TTAACACCCC CTTTATATAT TTTTACAAA AATACTGTA GAAATATATC
AAACGTTTTT ATCTCTCTG TCTTTTTTG TTTTTTAAA GTGTCAAAG TCTACATNTA AATATAAAN ATTAAAGTT
AACTCTAGC CCTCAGTA GG

SEQ ID NO:1171: (Length of Sequence = 384 Nucleotides)

TCTGAATGGG TTGGTGAAAG GTTACAGGAG CAGACAGCCT CCACACCCAG GCTGCTCTTG GCTATACAGG CTACCTCCAT
CCCTGANTGT TGTAAATAGGA AAGTCTAAAC ACACAGAAGA GGAGCACAAA ACCAATAATT ATCACACATT CAAAATAAAA
CTAATCCATA AAGAAAAGTA CCAAACTCAA CAAAGACAGC AATGCCTGAA AACACTGGGC TGTATCAGCA AATAGAACAA
AGAAAAATAN GCATAATTA AACAGTAGAA GGTGAAGGAT AATTTTAAA ANTTAGATAT CATATTCTGA TTATTGAAAT
AAAAAACTTA GTAGAAAAGC TTAAGTGAAG AGGATCAAAC CTGAGGAGGA CCCCAGCAGT TTG

SEQ ID NO:1172: (Length of Sequence = 418 Nucleotides)

GAGAGAAAAA AAAAAATCT TTTAAAGCT GCCATCTGAG GTGATGGCTT CTCTGTACTT ACGCCATACC CCAGANTACA
ATAAATAAGC AATTAGAAAA CGTTCAAGTA TGAAGGGATT TCCTCTCCC CGCCAAAAGC ACTGCTCTCT GAAGGAAGCT

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GGTTTCTCTG TAGCTACACC AGCTGTTTCAG AAAGCTCATT GGACCTGGTT TTGAAAATAA AACAAAGTTA AAACCCCTGGG
AGGAGTTATT GTNCAGTGTG GAGTACTCAG GCTTTCTTAT AAAGAAAAAA AAAGGTTATC TGGTACCAAA GTGTGCACCT
ACAGACCCCTC AGGTACTGCC CTGTGACTTC NCTGTATGAC ATCACAAGGC TGCCAAGTGC TGCTTTNCTA GACTAGGGAG
TTGGTGAGGT TTTGCTAG

SEQ ID NO:1173: (Length of Sequence = 274 Nucleotides)

GAGATCTAAA TGAAATTAT AAGAAATTG TGGGTTCTGC CCAAGATGAC ATCTAAATTG AAGAAGGTAC ACAGTGAGTT
TAAAGGATCA ACGAGAGAAA CTTTTATTAT TCATTTGCAC AAGAAGACAC ATTCAGTATC TGGATTATCC AATATATGGA
ATACTTTGAG TTGAAATGAT TAAAGGGTAA TCTTTAATCA TTAATTAACA AATCATTAAAT TAANCAAAAT AATATTTAGC
AAATTAAGCA AGTNCATAAG GCTACATGCA AACT

SEQ ID NO:1174: (Length of Sequence = 326 Nucleotides)

AGAAATTAAA ACATTTTAAT ATAAACATTT CCAGAATATA GACTGACCTT ATATCAGTAC TTTTNGAGAC CGTTTTAAAA
CTATATATCA TCTAAGTTA TTATAGACTG TTTCAATTTT CACTTTTCAGA ACTAGAAAAT GCAAAAATAC ACTGCAAATT
AGATTTAACA AAGAAAAAAT CAGTTTAAGN TATTTTCATAC ATATTCCTTG GNGAAAGCTG AGACACATAA ACACAGNAA
ACAACAATAA AATACCACCA AACTAACAC AAAACCAAGG AAAGAACTGN TTTTGTAACG CTGGTAATT CTGTCCTTTA
AAATAA

SEQ ID NO:1175: (Length of Sequence = 426 Nucleotides)

GCACTCAGGA TGGACACATT AGAAAGAAAC ATTTTAGTTT CAATGTTACC ATAAAACCAG AACGAAAAGC AGCATGCTGT
ATTATATTIN NCAATTTAGG TTCCATTCT AACTCCACCT AAAATGAATA TGAACAACT CATTTTAAAG TGTGTGTCAG
TCAAATACAA TAATAGTCTA AGTTTATTCA CATATGTACC AACCAAAGCC CAATAAGCT AAAAGGAAGC CAAGTGTAA
AAAAAGGCAG CTATAAGGTC TTGTGTTGA NTTTTTACCC AGCAAGAAAT AATGATACT TAGTAATCCA TCTTTCCCCC
CCACTGCCAT CCCTGCACAC ATCTAAAATA GCCTAACTTC ACCTATTCTA ACTTCTGAAA TTGTTTGGG ATTCCGTGT
TACTTTCTCA GAGTGGATGG TATAGC

SEQ ID NO:1176: (Length of Sequence = 301 Nucleotides)

CTAATCTCA ATCCTATCCC TTNCCCTT AGCCATCTC TCTAATTINT TTAACCTAAG CCTGTGTGTC CTCAGAAAAT
AGGTTATGCT GTTGGTGTG GTGGTTGGTA ATCTATATAC ATGGNGTTAT GCTATTGATT TTGTTGGTA ATCTCCCTTT
TACTCAATA CTATATTAT AAGANCCNT TAAGTGGTTG TATGCCTCTA CTTTATTGCT TCTGACTGCT GCATGGAATT
CCATACTCAT GTCCACCACA CTACTCATT CTCCCTCTG ATGGACGCTG AAGTTGCTTG G

SEQ ID NO:1177: (Length of Sequence = 331 Nucleotides)

GCAATTCCTC TGCCCTCANCT TCCTGAGTAG CTGGGATTAC AGGTGCCTGC ACCACGCCCG CCTAATTTTT GTATTTTATG
TAAAGACAGG GTTTCACCAT GTTGGTCAGG CTGGTCTCGA ACTGCTGACC TCATGATCCG CCGGCTCAG CCTCCCAAAG
TGTTGGGATT ACAGGCATGA GCCACCAAGC CCGGCAAATC CATGCTTTTA AACATTACTC TGTATGGTGT GATAATGAAC
AGTCACTGNT ATCTGACTGT TCATCTGTGT GGTCCATCTG TATTGAATAA AGGAGGAAGG AGTTGAAGAA TAAAGGGGAA
AATCTTGCA A

SEQ ID NO:1178: (Length of Sequence = 325 Nucleotides)

GAAATTINTG GAGAGAATAG TCATACCTAC TTTAAAAGAG AATAAATTGC CTTTCCTAAA TNCCTCTGCT TCGCTCCTTT
CCTGGCGTTG CTCTGGAACC TTGTGAGTTA TATGTATGAT TNCGTACTC TGATATCCAT CAAAGTGCAT AACATAGTAC

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TCATGATGCA GTAAGTACAA ATCTTTTTTG AAAGAGATAT TGCTTGINAA CATTTTGGAT TTATAACATT GGCTTATAAT
ATATACAACA TCTTTATAAA TGCCACCTCA GTTGGGTTTT AAGCCTTACA AGAGTGCTAT GAGTAAATAT CACCCACTTT
AAAAA

SEQ ID NO:1179: (Length of Sequence = 297 Nucleotides)

CCTTGGGAAT TGTTTCTTGG AAATTAAAGC ATGTGTCTCA CACAAACAGT AGAAGGCATT GAGCAITCAT TAGTCTTTCC
TCAAGAAGAT ATCAAAATGA GACTAGAAAC TCTCTGGTGA ACACAGAATG CTCTGAGGGG GNCCAAGGTA CATTATGACC
TTAAAACGAA CTCCTTCTCC ACTGGCCCTA TTA CTCTCACTG TGGAAAGCAC CATGCCAGGC ACAGCAAGAG ACTTAAGAAC
ACCTACAAAG GAAGATCTCT NCCATCCACT TGTGTAATTA TCTTTAAAAA GTAATCC

SEQ ID NO:1180: (Length of Sequence = 278 Nucleotides)

GCTGCTGGG ACTTGAAATC TGTGGCCGAA GACNGTCAC TACATAACTT CAAAAATAAT CAACCACCCT CCCTTCCCAA
ACCACCCAAA TTCACATC CAGCGTTTAC TTTTITGAAT CCACTCAGAA CTTTTTNCCTG CGACCCCCCT CCCTAAATGG
AGTTGGGTGG GGGGGAATG AATACTGAGT TGGCCTTTAT TTTTAAAAG ACTTTTGTAT CCAATGAGGC CCCCTAAATA
ATTGAGTTTT GGGTCTGGT TGGTTTGT TATTTGT

SEQ ID NO:1181: (Length of Sequence = 331 Nucleotides)

AATTGAGTTA CAGGAGAATA CTGTGAACAA TTGTACAGCT AAAAGTAATA ATCTAAATTA AATGTACACA TTCCTAGAAA
CACACAAATC ACAAANCTG ACTCAAGGAG AAATAGAATA TCTCAACAGA CCTATAACAA CTAAAGATAT GGAATCAGTA
ACCAAAAGCC TTCCAACAAA GAAAAGCCCN GGANTAGATG ATCTTCACTG ATGENTTCTA CCAACATTT AAGAAAGATT
TAACACTAAT TCTACTCAA CTCTCCACA AAAAATATGA GANGAGTAGA GAAAACCTTC TAAATATCT TATGAGGGCA
GCATTACCGT G

SEQ ID NO:1182: (Length of Sequence = 345 Nucleotides)

GTGTGINTAG AGGGATGGAC AGGATGCTGT TTATTNCCC TTTCTTGGAA ATGGACCTTC TGTCCCTTCC ATTTGGACAC
CACAGTGGAA GCTGGTGGCC TGGAAGGAAG GATTAGGTCA TGGACATTG AACAGGTGCC TTGGGCATGA TGTATAGATG
CAGTCATATA TACCTTCTG GNTGGGGTG CCACCTCCAG TGCNACGCTC CAGATCCAAG GAGCAGCCCC CTGGGGATGG
ACCCCATTC TATCATGA CTCCAACAG TTTTINATTG TGGAAGAAGA AACTTTNGCA TTATAGAGAC ATCATCAAA
AACAGTANAA ACAAATCAA CCCTG

SEQ ID NO:1183: (Length of Sequence = 272 Nucleotides)

ATGGAAGATT CAGAGATCAA AGGTGAAGTC CTCTATCTCG GCTACTACCA ATCAGCCTTC GACTGGNATG ATGAAACANC
CAAGGCCTCC AAGCAGCATC GTCTTAAACG CTACCACAGC CAGACCTATG GCAATGGGTC CAAGTGGGAC CTTAATGGGA
GGCCCGGGA GGCCGAGGTT CGGTCTCTCT GINACGAGG TGCAGGTATC TGTGGGACT ACATOGATCG CTGGACGAG
CCCTTNTCCT GCTCTTATGT GCTGACCATT CG

SEQ ID NO:1184: (Length of Sequence = 335 Nucleotides)

ACATTTTGCA AACTCAGTTG ACTCACCTCA NATTTGCCAT TCCAATTACA GGGCCTCGAA AGAGTCAGCA CTCAGCCTTG
CTCAAGGNTC AGATTAGGG GTTGCCCCC GNCCCCGCAA CCTCCACCT ATTGTTTCAA ATGTCTCAA GACAATCACC
ACTGTATTAA GAGAAAGAGG CATGGGGGCA GAGCAACAAG GAAATAAATG AGGCITGAGA ACTGTGTCTA GGTGGGGTTA
CTTTGAACCT TAAACCAACC TTGGGNCCCA AATCTGCATG AGCAGGGGGT GGGCTATCAT GCTACAGANC CCCAAGGAGG
ACATTTTCC CAACA

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SEQ ID NO:1185: (Length of Sequence = 383 Nucleotides)

GAGAGGTGAG CAGGCGTGCG GGGGGGGGAC TTCTGCAGAG AAAATATTTT TAAAGTCATA AAACCATGAA AATAACAAC
ACTGTACGTT TTATTTTATA GAAATCAAGT AGTATCTAAT AGACAAGGGA AGACATTGAT CCATAAACTT TTAAAGAAA
ATTGGTAAT CTCTTAAAGT ATTGTATCG CTITGAATGG GTGTCCTTTT CTAACITTTGT TTTAATTTTT ATGATACACT
TATAATTGTT TCAATAGGC ATTGTGTCAT TTAAAACTA CTAGAAGTTA CACTGAAGAA AAGCATTCAA AAGAAGACTT
TTGGACAAA AAAATTGTTG AATGAGTGAA ATGCCTGAGG TAGCTCAATT TACCAAACAG GAA

SEQ ID NO:1186: (Length of Sequence = 373 Nucleotides)

GGGGCTCAAG GTGTGCATGT NTGAGGGGAG AGAGAGAGAG AGAAGGCCGC CTCANAGGTG ACTTTCAGCC TGCNAGCCTT
CTTCCCGGG CGCCATAAAC GCCCCAATT TCCAGCTGC TAAAGGAAGA GGAAGGTACC TGTNCGTGCA CGCAGACGGG
AAGGGCTGGG GAAGCGGGAG GACTGAGAAA AGCCAGATCT TAGCAAAGCA ATGTCCTAAG ATGGTGCTTC TCAGTTCCAA
GAAGTCATTC GGCAAGAGCT AGAATTATCT NTGAAGAAGG AACTAGAAAA AATACTCACC ACAGCATCAT CACATGAATT
TTGAGCACA CAAAAGGGC CTGGGTGGAT TTCGGAAGCT ATTCATAGA TTT

SEQ ID NO:1187: (Length of Sequence = 365 Nucleotides)

TCTACGCAAT TCTGAATAAA GTTTATTAAA TAATATGTAC AGCAATGTA GTAATTCAAC ACATCTATTT ATCAAATCAA
TCCACTGCAA TGAAGAAAA TAAATGANCA GAAAAATCTA TGTCGCATA GGNCATGCTC TCAGTGTGTA ATTTAAATGG
CAATACTTTA AATTAATTGG TTATATATAA TGTCAGTTAT TTTCTTTCA GAATATAACC TTTTGTGTAG TAACCTATT
TAGCAATAGG GCTTAATACG NCTGCAGATA AATAGGNTG CAAAACCAA AAACCCAAA TAATGAAATT NAAAAGGGGA
AAAAAACTGT AACTGNGTC AGAGTTACCT TTCCTCCCC ATAGG

SEQ ID NO:1188: (Length of Sequence = 350 Nucleotides)

ACTATGGCT TACATTTATT TTAAATTCA CTAATACAA ATCTTGATTG TCATGCCAGT TTTAGATCTT ATTAATTTC
AGAATGGATA AATTCAAATA ATCATAAATT ACGGTAACCT TTTATTATAC CAAGGTGTTT TAATGCCATC ATATGANGAC
AGATGCTTCA AACAACCTGC ATTAAATTAT ATTNNATA AAATTAAAT CTATTTTTAA CCTATTGTGA GTCACAAACC
GAAAACGTG CGNCTTTACC TTAGAGCTAA AGGCTTACTT TATGCATACG GGATATTTAA TAGTCTACAA ATCAAAGGT
TAAACAGNCC CTAAAAATT CCATATATT

SEQ ID NO:1189: (Length of Sequence = 393 Nucleotides)

GCAAACCTTC TCACTTCTC AAAGAAGAGT AGTGCACTAA AAAGAAGGTT GCACCCGGAG AGCATGTAAA GTGTCTCAAG
GGGGACATCT GAAGTNCCTT GTTCCCAGG AGCCACTGG CTCTCACAA GTAATCTAAT GAAAGCTATG CATTCTCTCT
GGGCTCCTCA TATGAAAAAN CCAATGTAT GANGCAAAGC CTAGAAAGGA TTCAATACTG GAGAAATGCA CACAGCTACC
GATAAAGACA GCTCAAAAGT CTAAGGCTG CTGACATGAA CCAGATAATT GGTGGCTACA GTTGTGCTG CTAAGATTTG
GGTGCATGGG GCTTCGCTT GTTAGCTCC CATGGCTTC TTTTCCAAA AAAAAAAG AAGNCTTCAG GTT

SEQ ID NO:1190: (Length of Sequence = 365 Nucleotides)

AGTGTAACA TTCACATATT TAATAGTACC TTTAAATAA GCATTACTAC ATTTAAATG GTTCCAAAT GAATCTATAA
ATGGTAATAT AAATTAAAA ATACGAACCT AAAGTGAATA AATTTTAAAC CTTAGCTATG GTATAAATAA TGGTAAATG
ATAGTGATCC TGTAGTCAT TAAATGTCT TAAAGATAA CAGCTTGTTA CCAGAACATT AGANACCATA GCCATGATTC

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TCAAGCGNTA ACAATCTACA TTGNTATTT NCTTGGCCAC TGCAITCTTC AAATGANTAA TAAATTTCCA GAATTCCCAT
TCCCATGGTG TTTTTCCTAA TAGANCTTTT TCACACTCGA TGTTG

SEQ ID NO:1191: (Length of Sequence = 303 Nucleotides)

CCCGGAGAGC TGCCTTCCTC TTCTACCACG TGAGGACACT GCAGGAAGAC AGCTGTCTAA GAACTAGGAA GTGGGCCCTC
ACCAGACATT GAATCTGCGC TCCTTGAAC TGGACTTCCC AGCATCCAGA ACTGTGAGAA ATAAATTCAT GTTATTTATA
AACCAACCTG TCTATGGTAT TTNTGTAGC AGCCTGCAGC TCTCTATCAC TCTGTTTTAT AAGAGGCTGA AGTTTACTTT
ACCTCAGGCA GAGCTAAGCA AAAAAGATTA CATCCGATT ACAAGATGAA AGTAAACAGA ATT

SEQ ID NO:1192: (Length of Sequence = 315 Nucleotides)

ACTCCAGCCT GGGGAACAAA CAAGCAAGAC TCCATCTCTA AATAAAAAAG AGTGTCCCC TAAGATGCTC TGCGAAATAT
TGTTAGACTGG TGTCTCTCTT GGATGATGTT TGCGTTCAGC ATTCACCAA TAACTTGCT CTCTGGGAAA AAAAAAAAAA
TAATAAATAA AATAAACAGT AAGAAACACC CATAAANCAA ATTTCTATGC TCCTGCAGCC TCTTTTGGCC TGAGCAAGTG
GGACCTTGGT ATACACATCA CCTGTNCTIN CCCTTTTCTT TGAAATGTGG TGTTTGCTGT TAAATTGGGA TTGAA

SEQ ID NO:1193: (Length of Sequence = 313 Nucleotides)

CGAATTAGTG AACTGTGCTT CAGGTCAGG AACCTGGTCT TAGCTCCITG CCTGCTGAGA TTTTGAGTTA CAAGTAGAAT
TCTCCAAAAG CAAAACACGT AAAAGTCATT TTNCCACTCT TTTGGTCAAG CACATGTAAG CTTCAGGAC CAGGTGGTAT
GCCGTNCTG AAAGTGAGAC ACATGCCCCA GGGAAAGGGT AATTTTAAAA TTCTTCCCAT AGGTCTCAT CCTGTTCCTC
TGCTATGTCC AGCATCTTIN AGTCCAGCT GCAGGCGCTA TATTTAAATA CCTCATGCT TTATCGCTTT TGT

SEQ ID NO:1194: (Length of Sequence = 341 Nucleotides)

GATTTAAAAG CAAGTNATTT TNAATCCAC GAAAGATGCC TACCTTGGNT CCTNCTCTGG TCCTTATTAG CCACACCTCT
CTTGACAGGC AGAGGAGTTA GGAGTGAGGG GATATTCCCA CCAAGACCCT ACAAATTGCA CTCTTAGGCC ATGCCCTGGG
TACCCAACT CTAGAATTCC CTCCTCAAAG GGACCTTAAC CCAACTTCAG AGCCTATATA GGCCAATTCC TTGGTCCATT
TTCCAAGGGG TGGNCAAAG ACAACCATTT TNGGGAGGGN GANGGGAGTA GGATGAAGCT TTGNCACGT GGGTCTTGGG
CAAATCCAC ATATCCCGGA A

SEQ ID NO:1195: (Length of Sequence = 239 Nucleotides)

TTATTGATTC TTTTITGAA ATGGAGTCTC GCTCTGTNNC CCAGGCTGGA TTGCAATTNC NCGATCTCAA CCCACTGCAA
CCTCGCCTC CGGGGTTCGA GCGATTCTCC TGCTCANCC TCCTGAGTAG CTGGGACTAC AGGTGCGCGC CACCATGCCC
AACTAATTTT GGTATTTTGA GAGACAGGT TTCTCCATGT TGGTCAGGCT GTTCTCAAGC TCCCAACCTC AGGTGATCA

SEQ ID NO:1196: (Length of Sequence = 291 Nucleotides)

CCATGCTTGG CTCAGGCCT GGGCGGGGT CCTGGGTAGA GTCTAGCCC CAGAGCCCCA GCCCCTCATG TCCTGCGGCC
CCTCACTGAC CAGACGATGA TCGNAACT CTGTGAAAA CATGGCAAAG GATTAGAAAA GGGCAGGGTG AAATTNCCAA
GCCACTCAGA CGGAACCCAG ATGATCTTCA ATGCAGCCAA GGAGCTGGGT CAGCTGTCCA AACTCAAGGT TCACATGGTA
CGAGAAGAAG CCAAGAGCTT NACCCCAAAG CAGTGC GCGG TTGTTTGA T

SEQ ID NO:1197: (Length of Sequence = 303 Nucleotides)

CTTCATATTT TTATAGCTGG GGTCAAATA TGCAATTTAA AAATAAATAT ATCCATTINC CTATTCTTAC ATTTATGAAT
ATAAAANTAA AATCTAAGAA ACATAATGCT GCCAACTAAT AGTAGTGGAG GAAAGGAAGC TGAGAGAAAG ATAAATATAT

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TANITTTAATC ATTACTCAGA AAAGGCAGTA AAAGATACTA TCTATAGCAG GCATCAATAA ATATGANCCA TGAGCCAAAT
CAGGCTTACC ACCTGATTTT NTAGGATAAA GTTCATTGNA AACACAGTTA CAGTGTCTTT CCA

SEQ ID NO:1198: (Length of Sequence = 318 Nucleotides)

CTCAATTTCT TCTCATCTTT TINATGCTAT TATGTGCATA TAAGTTACAT TCCTATACAT TGTGTGTCCA ACACAAATTT
AAAATTATGC CATGTGTCTCT TAAGTCATAG AACAAAAGAG ATACAAACAA AACATACATT TATCCTGTCT TTTATATTTG
CCTATGCAGT TACCITTTACC AGTGTTCCTT ATTTCTNCAT GTGGATCTGA GTTACTGTCT TTNAACTTCA ATCTAAAGNN
CTTTCAGTCT GAAAGACTGT AATTNNAATT TCTNGTAGGG GTAGGTAAAC TAATGATTAA TTCTCAGTAT TCTGAGGA

SEQ ID NO:1199: (Length of Sequence = 326 Nucleotides)

TCTAGTTATT CTGAGAACTA CAACCAAGAA AAGAGGGGAG CACCGGGTTG GCCAAGGCCA TCCGGAGACT TGTCTGTCTG
GGTCATTTAA AAAGCTTTTC TAGGATAACG TTGGCTTTCC AAGTGGTTTT CCAAGCTGAT GTCTTTCCCA CTGAGGAGAA
GCTGTAGGCC TGTGGACTGC CAGGTAGGAG GAGGTTGAGG TTTAGAGGAA AGAGGAGAGC AGGAATGGGT TGTITNCAGT
GGGGCTGTTC CCATGGACTC ACCAAGAAGA AATCGAGGTG CTGATGGGGC TGCACAAGTG CTTATCAGAA ACAGCTGTAA
CAAGTT

SEQ ID NO:1200: (Length of Sequence = 341 Nucleotides)

GGGTGACAGA GTGAGACTCA GTCTGCTGA AAAAAACAAC AACATTGCTT TACAGTGTGA TTCCAGTTAC AGAGAATATT
CACATAGGTG CATAAATAAA TGAAAAAATT ATTGGTTAAT GTCTCTGTAT GTTGGGATTC TCAGTGATTT TTTTTNCTA
CTTTTNAITT TINATAATTC CTCAGTGTG TTGGTGTAG CTTTATAGAT TATATCAAGT AACCTTTTGC TGCACCAAAA
AACCCCCCAA ATCTAGTGGG TTAACAACAA ACCATCTTAC AATTTTNNTC AGAACTGTCT AAGGCTGGAT ATTTTACTGG
GCTCTCTCCT GAATGTGGGG G

SEQ ID NO:1201: (Length of Sequence = 312 Nucleotides)

GTCTTTNTTA CCCTGCTAGC AATAGCTCTC AGTTTCAGAG GCACAGTCTT TGGAGACCAT TCAGCACTGA GAAAGCAATA
TTTAGAACCT ATTGCAAAAC TGGGCCTGAG TTAGGCATGG TGATGAATGC ATCAGCAAGG AATAGAAAGT NCTTATCGTG
AAACCCCTCA ACCTCAACTA TGCCTTCATA GACACACAG TTCTATGACA GTTAGGCACA TGTACCATCT CACATCTTTC
ACTTTCCCGA GATGCCATAT ACAATTACCT ACATTAATAN CTGTAGCACT ATACCTTTTT GAGCCCGAGA GA

SEQ ID NO:1202: (Length of Sequence = 344 Nucleotides)

GGAAAATAGC CAGACTGGGT ATTATGCATG TAACAAATGA GGACATTGTG CATAAGAAAG GAAACATTAG TTTTCTGTCA
TCTGGGCCA AGTACCTCAT TACAGTAAAT GTGTGTCTTT GGAAACTCTT TGCTGTNCT GATGGCGGTA AGCATGGGGT
CCCAGGCAGG TTCAAAGGCT GAACTGTAAG AAATGGGCAA GACAATACAT TTTGTTTTGG AAGGAATTTT TCATGGGATA
AGTTTCCCAA AGCTTGAATT ACAGGCTATG AAATAAAGCA AATAGATGGA GGAGAAAACA AGTATTGTTT TCAAAAAGGT
ACCAAGTCAA TTCTATTTAA AGGA

SEQ ID NO:1203: (Length of Sequence = 370 Nucleotides)

GTTCITTTATC TTCTCTCTCT TATGTGCACT ATGTAATGTC CTCATCATTT TAAAAGTGAG TTGCTATTGG GCGGGCGGG
TGGCTCACGC CTGTAATCCC AGAAGTTTGG GAGGCCAAGG TTGGTGGCTC ACTTGAGGTC AGGAGTTCAA GACCAGCTG
GTCAACATGG TGAAACCCAG TCTCTACAAA AAACACACAC AAAAAATTAG CTAGGCATGG TGGCACACAC CTGTAATCCC
AGCTACTCGG GAGGCTGAGG CACGAGAATT GCTTGAACCC AGGGAGGCGG AGGGTINCAG TGAGCCCAAG ATCGTGCCAC
TGCACTCCAA GCTTTGGGGT GACCAGAANC GAGACTTTCT CAAAACAAAA

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SEQ ID NO:1204: (Length of Sequence = 346 Nucleotides)

CTCTTTAGAA AGCCTGCCTT GGCTGGGCCT GGTGGCTCAC CTCTAATCCC AGCACTTTGG GAGGCCAAGG TGGGAGGATT
 GCTTGAGCCC AGGAATTINA GACTAGCTGG GGCAGTGTAG TGAGACTTTG TCTCTACCAG AAAAACCGGG CGTGGTGGGG
 CATGCCGTGA GTCCACGTA CTGGGAAGC TGAGGCAGGA GGGTTTGCTT GAGCCCGGA CGTGGAGGTG GCAGTAAGCT
 GTAATTGTGC CACTGTACTC CAGNCTGGGT GATAGAGTGA GACCCTGTAT CAAACAAAA CAAAAACAA AAACCTGCCT
 TCINGGGATT GGGCTTCGG GTTTTT

SEQ ID NO:1205: (Length of Sequence = 292 Nucleotides)

TACAACGAGA CACTTGAGCA CACGCGTACA CCCAGACATC TTCGGGCTGC TATTGGATTG ACTTTGAAGG TTCTGTGTGG
 GTCGCCGTGG CTGCATGTTT GANTCAGGTG GAGAAGCACT TCAACGCTGG ACGAAGTAAA GATTATGTGT GTATTTTTTT
 TTTTCTCTC TCTCTCTCTC TTAAGAAAGG AAAATATCCC AAGGACTAAT CTGATCGGGT CTTCTTCAT CAGGAACGAA
 TGCAGGAATT TGGGAAGTGA GCTGTGCAAG TCCTGAAGAA GGAGATTGT TT

SEQ ID NO:1206: (Length of Sequence = 336 Nucleotides)

TTGCCAACAC AGTGTGTCAT GTTATTGGG CTATTCACAG GTAAGCTTAA AATACAATGA AAAGAAAAGA CCAGACGTCA
 TCAGGAATGT CGAGAAACAA AATATTTAGC ATTCTTAGT TTCAAATGTT ACCATTTCAT TGCAGCTGAG GAATATAGGC
 CATTCGTGA CATAACTGCA ATGGGTGAGA CTTATTTTGA GCCACAGGAA GCAAATACAT TTAACCAATG ACTTTTAGGA
 CAGGAAGCAA AAAAGAAAAC AATATTTTCA TGTAGCAAGG ACAAGANAAT CATTTATACA AATTAAAGTG GATATTAAAA
 TACCATTATA AAGAGG

SEQ ID NO:1207: (Length of Sequence = 319 Nucleotides)

TGCTCANCC TCAGAGTAA CTGGGATTAC AGGCGCCCGC CGCCACGCCT GGCTAATTTT TGTATTTTGA GTAGAGATGG
 GATTTTINCA TGTGGCCAG GCTGGTCTCC AACTCTTGAT CTCAGGTGAT CCACCTGCCA CAGCCTCCCA AAGTGCTGGG
 ATTACAGGCA TGAGCCACTG CGCTGCCTC CATTTCTTTT TTATAATCA TCCTGAACT CCCTTAAGGT AGAGAAGCTG
 TTTGATGTC CCAGCCCTG GGAGGCTGAA AGGTAACTTN ACCAGCTCCA TGCTGAGTT TAGCACCTGC TGTGCCAGG

SEQ ID NO:1208: (Length of Sequence = 357 Nucleotides)

GAGATGTTTA AAAATGAAGT GGAAGTTTTT TGTTTTTGTT TTGTTTTTGC AGAAAAAGA TTTTAAATGG CTGAATGTN
 CTGCCATAGT TGCGTCAGAT TGTGAGAAA TTATGTTGTA CATCTGAGAG AGAAAAGAAG AGCCTTTTGA GGAGCTGCGC
 TAAAATTATT TTTGTTTAG TCTCTTAAT CTTTGGCTTG AATGAGTCAT TGACTTTCTT TGCCAAGATA GGGTTAGCAT
 TTGTTTTGIG TTTTAAAGC AGGCCAAGGG ATGCCACGA GGGGAGACAA CCTGAGCAAC TGAAGGAAGG AATTTCTAGA
 AATGTGTTT ACCAGTTGTT TTAGTCTGAA TGTGATT

SEQ ID NO:1209: (Length of Sequence = 362 Nucleotides)

CCCATCTGCT CCACCCAAAG AAATCAGACA AAGTAAAATT TATGAGACA GACAGAAATG CACCTACTCA GGACTACAGT
 TAAGCATTTA CTATTACCA AAGAGTTGTG TTCACATTCC AGATAAGTCT ACGTGGAAAA GCATTACAGAA TTTACTAGGT
 TTTTNTACA TCACTATTTC ATCTACAATA GGGACAACAA ACTGACACTC AGGATTGAT GGGCTCTCAT TACAATGCTA
 TACATTTAAC AGGNCNAAC ATCAGTGAAT TTGAGGAAAA AGTTATAAAA NGACCAAAAC CACCCACTGT AGGATGGGCT
 CTTGGATGTT ACTGTACAGC GTGGGTCAAG GTAACAAGGA GG

SEQ ID NO:1210: (Length of Sequence = 349 Nucleotides)

GAGAAGATAG TAGAGAAAGT CAGCGTTACA CAAAGGAGAA CCAGGAGAGC TGCCTCTTTT GCCGCAGCTA CCACTTCCCC
TACTCCCAGA ACTACAAGAG GTCGTAGGAA GAGTGTAGAG CCACCTAAGC GTAAGAAGCG GGCCACAAAG GAGCCCAAAG
CACCAGTCCA GAAAGCTAAG TGTGAAGAGA AAGAGACTCT GACCTGTGAG AAGTGCCCCA GGGTATTTAA CACTCGCTGG
TACCTGGAGA AGCACATGAA CGTTACTCAT AGGCGCATGC AGATTTGTGA TAAATGTGGC AAGAAGTTTT TCCTGGGAAG
TGAGCTGTCC CTTACCAGC AACAGACT

SEQ ID NO:1211: (Length of Sequence = 344 Nucleotides)

TTTTTTTTT TTTTTCAGG GAAGAGCTTT ATTGCTTCCA TGGGGGTGGC CTGGGACGGC TGCCACAGCT TGGGTAAGCT
CCTTGGGCTT CANITCCCTT TGTCCAGGC TAAAGGCAGA ACCCAACCAC CTGGCAGTNT TGTGTGTGAA ACCTAGAACA
TGTGGCAAGT TGGTGAGTCC GGGCCTGCGG TAGTCCTATG GNTCAGCTGC AGCTGTGGAG GGGAGCTCTT CCCAGCAGGC
GGANTGGGCG TCACCCTCCT GAGCTTTAAA GTTCTTCTG CTATAGCCCT GGGGCGGTCT TGTGGCTCC GAAGGAATGG
GCTCCAGGGT TCCCCATGG GACA

SEQ ID NO:1212: (Length of Sequence = 364 Nucleotides)

AAAGAAAACC TGGTATTTT ACCATCTCT CTGAAAATAA ATACTTTGAC TTGCACTGAT TACTACTTCA TCAGCATTCA
ACTCCGCTCC GTGGCACTCT GTGTGAATAA TTTTAAAGGC AGATTAAACA TTCTAAAAAT AAATTCTATT GGTAAATTAG
GATATCAGAT GCTTCCATTA TAAAAGCCTA TCCTATCTCG TACTCTCAGT TGGCAGTCAT ATCCAGATCT CAAGCTACTC
TGGCTCTTAT TGAACAAGAA CCTATTCCAG GNGTGAGGT TTTGAAGAGG GGATCTCTCA TGGTTAACTA GAGNCAGGAA
GAGGCAGAAT TGCCACATA CTCTNGCAGG AGTTAAATAA CAAT

SEQ ID NO:1213: (Length of Sequence = 302 Nucleotides)

CTAATTTTTG TATTTTAST AGAGACGGAG TTCTACCATG TTGGCCAGGC TAGTTTCAA CTCTGACCT CGGATGATCC
ACCGCCTCG GCCTCCCAA GTGTGGGAT TATAGGCATG AGCCACIGTG CCCGGTACT TTTTCTTTT TAAAACACT
GAAATGCTG TATCTACCAC ATTAACATTT TATTTAAAAA AATTTGTAA ATAGCATATG TATGTAAATT TAATATTAAT
ATACCTCTTT TTTTGTCTT CTTTAGGTGG TTGGAGCCTA GGGATACTTA CTTACTGATT TT

SEQ ID NO:1214: (Length of Sequence = 317 Nucleotides)

CTAATTTTNC AGACAGGTTT ACATGTAAAA GGCTAGGTAT TTAGCCACCT CAGCATTGAT TAGTTTGGG TGTCTAAGCT
CTGTTACACA TGGCTTCCCA TGGCTTCACT CTACAAACA TATTNCAAC GTGAAGGNTA CATCTACAAG AAATCTACAT
TTCAAGGGTT TTACAAATCA ATCTGTATC TTTCCCTGA ATTGACTCTC ACAGACCCCG TCCCCTGTIN ATTNCCTTTG
CCCAGCTTAA CGGTCCAAAG TCTACTTAAA TGCAGCTCAA AAATGTAAAG ATTGGGCAAC AGATTACAG TTCTGT

SEQ ID NO:1215: (Length of Sequence = 276 Nucleotides)

ATAAGGTATT AAACAATAT TCTTGACTT GANTTAAAA AAAATCAAGC TGGGTGCAAT TGCTCATGGC TGTAATCCCA
ACACTTTGCT AGGGTTAAGT GAGAGGTCA GCCCAGAAGT TCAGTACCAG CCTGGGCAAT ATAGTGAGAC CCCTTCTCTA
CAAAAAAAT GAAGAAATTA GCTGGGTATG GTTGCACTG CIGTGGNCCC AGCTCCTCGG GAGGCTGAGG CTGGAGGNTC
ACTTGGGCCC AGAAGGTCAA GGCTACAGTG AACCTT

SEQ ID NO:1216: (Length of Sequence = 354 Nucleotides)

GCATAGGCAG CCCCTGCTCT TGCAATTACC TCCCAGTGA ACTAGCTGCT CAGTCATTGC TCTGGAATAT GGAGTTGTGA
TCTAGAAATT AAAGATGGGA TTAGGTAACC AGTGAGGTCC CTTCTACTGC CAGTGTATGA CTCTCTCTT TGTAAATGTC
ATATGTAGGG TTCTGTACAC AGGACATTTT CTTCAATTGA GTTCTCAGA TGCAATGAGC TCTCTGAAT GACTTAGCGG

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GGAAGCTCAG TTGCAGCTGA CGTATTAAAG GGTCTCTCC CATGTGCTG TGCCCGCTCG TTAGCGTAGG ATTCTNGCCC
CACGGCCCTT CCGTTTTCT AAGGGCTGG CTTT

SEQ ID NO:1217: (Length of Sequence = 272 Nucleotides)

CTTCCCAGCT TTGCTTGTT GTAAACAGCT GGCAGTGGTT ACATCTATAT TGTTAAGAG GCAGAGCACT GTATTTTG
TAAGATAAGG TGCTAGCTT GGCCAGGCTG CCAAGCTGGG GCINTTTAAA ATAAAAGTTT TAAAGAAAAA TTATAGCATA
ATAAATTACA CAATTTTATT GGAAACTGA AGGTGTTCAA CCAATGCTAG TTTTAAATA TATTAGAAA TACTATTCA
GGAAATTTTA ACTACACTCA TTAGTCTTAT GG

SEQ ID NO:1218: (Length of Sequence = 281 Nucleotides)

GTGCCCAGG CTGCAGTGA CTGTGCAAA CGCGGCTCAC TGCAGCCCCA ATCTCCCACT CTTAAGCAAT CCTCCCACCT
CAGCTCTCG AATAGCTGGG ATTACAGGTG TGCAGTCCA CCCCCAGTA ATINCITTA TTTGTTTTAT TTTTAGTGA
GATGGAGTTT CGCTATGTTG TAAAGGCTGG TCTGGAAGT CTGGCCTCAA GCGATCTCC CGCCTTGGCC TCTCAAAGT
CTGGGGTAC AGACGTGAGC CACCATGCCT GGGCCTGCTC A

SEQ ID NO:1219: (Length of Sequence = 231 Nucleotides)

GTCTCTCTC CTCTCTCCC TTTATTGGCA CTGCCGGAA CCAGGCAGCC AGCAGGGGAT GGGATCAGGA TGCAGTTGTC
ATGGAAACGG TTGGGGATCC ACAGGAACGA CATTATACA GGGACATTIN TGAAAGCAA GCAAGAATGA NTGCTTCCC
GATCTCAGAC TGGCTGGATT CAGATCATG TTTTGGCTGG TTCTCATTTT AAGGGTAAG CAGTTTGCTA T

SEQ ID NO:1220: (Length of Sequence = 409 Nucleotides)

AGTCACACAG AAACCTACTT TGCTTACAGC CTCATTATG TTTTTGTAT TGTTAAGAT ATTCGTGTG ATGACATATT
TTGCCTTAAA TTINCTAATT TTCCTGGCCA TTGCTTTCCT GTGATTGAA AATGTTACGG TAAGTGCTTA GTTTGGAAAC
TATACGTCA ACATATATTG CATTACTTCA GCAGAGCTGT AGTTCCATAA CATAATAAAA TGATGCTTTT TTTAATAAGA
AGATCATAA CATTTTATTA TGCCCTAAAA GATGAACATT CAAAGTTCAC TTTTCTCTG TTTTGATATG ACGGATATAT
ATCAGTAAAA TAAAAATGC TGCAGNACCA ATATGCACTA ACTCAAACAT GCTGTGGATT TGTAGGGGCA CTGAGGTAGC
AATGTCAAG

SEQ ID NO:1221: (Length of Sequence = 396 Nucleotides)

ATCTGAGATA CTTTGTCCTC ATGAATAAAT TAGTTAGTAG AATCTAATTT CTAGATCCTT CATAATGGTA ATTGAGGGTA
AAAAATAATA ATGTAGTAGT CAATTTTAGC CCTTTAAACC TATGGGAAC TGTATGAATA ACTGTTTGA ACTGCAGGGT
AATCCGTGCA CACTTGCAA CACATAGAAG CAACAAGACT ATTTCTCTC ACATTTTAA TTAATAAGT GCCTGAGTAG
ACTTCCAGGG TAAGGTTCAG AAATTINCTT TCTAATTTCC CTGTTTAAAT GACCACTACT TTTAAAGCTA TGCTGGGAAT
TCATTTTAC ATATATCTAA CTTACAGGAA ATTTTGAAG AGCCTAAATG TCTATGGGTA GATTCAATGT TTCCTT

SEQ ID NO:1222: (Length of Sequence = 350 Nucleotides)

GTATTTMTT CIGGGTACTC TTCATGGCCT GCTAGAGAAC TTTACTAAAT TATAGTCCAG TAGCTGGACA GAGCTGCATG
TGTATGTCT AAGTCCACCT GTGCTGCTGG TCAAGATTAT TTGCACTGT TTGGTGGTGT TGAAGAGGAA TACTGTTGTG
AAGGCTGAGT CAACTGCATG ACAATNCTCA TGGCTCACTG GCTGATGAGT TGTGGCATGA CTAGAAAGCT CTGCTGTAT
TCCAGATGA CAAGTCACAC CTGAACAGCT GGATACTACT CGCATCCAAT TTGCTTCAA GTTAACATAT TINCAGAAAA
TATTTGGATT TGGAGTACAT ACAAATATTT

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SEQ ID NO:1223: (Length of Sequence = 370 Nucleotides)

ATAAGCATAT GANTTTATCT ATAGGCCAAG TTAATGACAT AACTACAAAG AAATGACTTG TTTCACATGT TTTAAACCAG
 TGTTTTGGCT ATACTAAGCTT AGTGAGACAT ATTCTAAAGA AAAATAGAGA CGCAAAGAAG ATCTTACACT TTAATAGTCA
 ATTTTGTAGT TGTAATATTA CTATCGATCA TTTTGTAAGT CTCCTATATA GGGTGTAGGA TGGTGGAAAT AAGTAATTTT
 NTTAATGTTG TTAGGAACCA AGGCTATCAG TGTAAATGA AGGAGTTACA AGCATAAGAT TGANAGACGG TAAGTAAAAA
 GCTCATTAGT ATAGTTCCAA GTTTAACTTG TCAGGGATGA GCTCATGATT

SEQ ID NO:1224: (Length of Sequence = 188 Nucleotides)

ACATGACCNA GGCCTGACCA AATCAGACTA AATCCTANTA CCTATACCAG AGTTATTGAG AAAGATAAGN TTTGGCCTGC
 NGGCCTTTGA CAGTGAAAGG NINTAGGCTT TGGAGCTCCT CAGGGCCACT GCTTCAGGA ACCTTGCTGA CAGTGAAGCC
 AACACAGATG AAAGCAAGGC CAAACATT

SEQ ID NO:1225: (Length of Sequence = 353 Nucleotides)

CCCCAGCCAA GGGAGGCACT NAGTINAGTGT GGTACCCAGC GTGGGAAACC GTGCTTTTIN CCATGGNACT NIGCAACCCA
 CGGATTAGAA GATCCCACTC AGGAACCCAC GNCACCTGNA CCTAGAATGC CAACCCAGGA GCTGCACAGA TTCTAAACAA
 CCTCTCANCT GGAATCTGCC TAACCTGCA GAGCTCCTGC GGGGAGGGGT GACCAGTGCC ACANCTGCTG CTGCCTGCTG
 CCTAAGCCAT TTAA

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CAAAAAGTTA GAAAAACATG TAAACGTAAG TNATGAGGTA TTTCATAGAT ACAGTGCCCA TACAAATNCT CTTTCCCACA
 ATTTTCAACT GCCAGATCTC TTGCTTTAGT CTTTTTNCCT TATATTGGA GAAACAGAAG AGTTTGACAT AAAAGTCCCT
 TTGAGGATGT GAGGGTTGCA GTAGTTTACA GCAGGGTCAG AAAATGAAAG TAATAAAGCA ATATTTACAT GTTTTGTAT
 AAGACAAAAA ATATTTCCCT AAAAAGTTGT TAAAGTTT TTAGTCTAT AAACACTCAC TTTTATAGGG CACATGATTG
 TCTGTGTGAC TTCTCTTCC AGAGGAGGAC TTT

SEQ ID NO:1227: (Length of Sequence = 352 Nucleotides)

GGCATCTGTT TTTTGTMTG TTTTGAGATA GAGTCTCACT CTGTCGCCAG GCTGGAGTGC AGTGGGCTGA TCTCGGCTCA
 CTGCAATCTT TGCTTCCCG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC AAGTAGCTGG GAGGTGTGCA CGCCACCACA
 CCCCCTAAT TTNGTATTT TTGTAGAGA TGGGGTTTCA CCATATTGGC AAGGATGCTC TCAATTTCTT GCGCTTGTGA
 ATCCGCCCGC CTCAGCCTCC CCAAGTGCTG GGATTCCAGG CGTGACCAG GCGCCCGGCC GGNATCTGTA GATTTTAAAA
 GGCCCCAGTG GTTCTNATGC ACACCCCCAG AG

SEQ ID NO:1228: (Length of Sequence = 387 Nucleotides)

AGTTTTCCAA GATTGAGTGA CACTATTGTA ATGAGAATCT TCACTGGAGC ATCAGAAGAA CTGATTTCAA GCCAGTTTGT
 TTGGTCAGCA CGGTCAAAAC TTCAGAAGAA TCTGTGCTC TGAGGCTTTC CAAAGCTTTG TTCCCAGGG CAGTAACAGC
 TTCCAGTGTG GGCAGAGTCT TTAGTATTAT CACCAGGGCA GCTGCACTGT GGCTGTAGC CATCTTTCTC TTTTAGTACG
 ATCCACCTG TCAGACTTCT TGAATTTGCA CTTCAAATTA GAGCCACAAT CAAATTATCA GTCACGNTGT TTATTTTGT
 CACCAGAGAA AGGACAGAGT CTGTTTCAGC AGAGTTTGA GCCAGGTACT GATCTCTCTT CAGCAGG

SEQ ID NO:1229: (Length of Sequence = 366 Nucleotides)

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CTGATAAGGA GGTAAATTTCA TAGGAGCTGC TAAGATGGGC ATGAGGNTCA AACTGCAAAG CACCAACCAC CCCAACAAACC
 TGCTGAAGGA ACTCAACAAG TGCCGGCTCT CAGAGACCAT GTGCGACGTC ACCATTGTGG TGGGGAGCCG CTCCTTCCCG
 GCCACAAGG CTGTGCTGGC CTGTGCAGCT GGCTACTTCC AGAACCTCTT CCTGAATACT GGGCTTGATG CTGCCAGGAC
 CTATGTGGTG GACTTCATCA CCCCTGCCAA CTTTNAGAAG GTTCTGAGCT TTGTCTACAC TTCAGAACTC TTCACAGACC
 TGATCAATGT TGGGGTCATC TACGAGGTAG CTGAGCGTCT GGGTAT

SEQ ID NO:1230: (Length of Sequence = 343 Nucleotides)

AGTGGAGAGA AGCCCTATGA ATGTTTGTAG TGTGGGAAAT CGTTTGTCTG GAGCACAAC CTCATTGAC ATGCCATTAT
 CCACACTGGA GAGAAGCCCT ATAAATGTAG TGAATGTGA AAGGCCCTCA GTGCGAGCTC GTCCCTCACT CAGCATCAAA
 GGATGCATAC TGGGAAAAAT CCCATCAGTG TAACAGATGT GGAAGACCT TTTACAAGTG GACAAACCTC AGTTACCTTT
 CGAGAACTIN TTTTAGGGAA GGACTTTTGT AATGTAACCA CTGAGGCAAA TATTTTCCA GAGGNAACAT CTCCTCTGC
 ATCTGATCAA CCATACCAA GAG

SEQ ID NO:1231: (Length of Sequence = 406 Nucleotides)

CTCTCGCCGG GCAGCTTGA GAAGGCGCA TACTCTCCAG CTCCACCGTT ACTTCAGCAT GGCTGGGGAG GCCTTGGAAA
 ACTTATAATC ATGGTGAAG AGGAAGCAAA CATGTCTTC TTACATGAC GGCAGGAAG AGAAGTGCTG AGCAAAGGGA
 GGAAAGCCCT TTATAAAACC ATTAGATCTT GTGAGAACTC ACTATCATGA GAACAGCATG AAGGTAACCG CCCCATGATT
 AANTTACCTC CCATGGGCTC CTCCTCGCA GACGTGGAGA TTATGGAAC TACAACTCAA GATGAGATT NGTGGGGAC
 ATAGGCAAC CATATCAATG TACATGTGTC TTTATGGTAG AATGATTTAT ATTACTTTAG GTATATAGCC AGTATTGGGA
 ATTGCT

SEQ ID NO:1232: (Length of Sequence = 380 Nucleotides)

AGACCATCAA AGGCCAGAG GAGAGACTCT TGGACAAAT AAATATTTAA AAGCAGTTGC CTATGAGAAA ATGGAAAAAG
 CCACAAGCAA AGGTAAGATC CATGCTCAA AAAGGCCTGA GAAATCTTA AACCTTCTCC TCAGATTGAT CCCAAAGCTT
 AGAACGAATA CCAAGATAAT AGCAAAATC CTCCTGGAA AAGAGTCAGT CTGCAAAAC CGGAAAAGGA GGTGTGTTTT
 TCCACAATGC CTAATTTCTA ACAACAACA CAAAACTCA GAAACATGG CCCAATAAGT GGAAGAAAT AAGTGACGG
 AAACCTTCCC CGGAGGAAAC ATAAGCTTCA GGCAAACTAG ACAGATTTTA GACTGTCTAA

SEQ ID NO:1233: (Length of Sequence = 357 Nucleotides)

TTCAAAGTTT ATCACAACCA CCACCATCAA GACAGCAAAC CAAAGGGGCA TGGTAAAAGA AAGTTCAGT GACTCTGGAT
 TTGGTTCTAA TTTAATGCA ACTTCTTGAT TGAGTGCAGG GTCAGCACTA CTTGGAAGTG GCTTTGGCGT TTCANCGGTG
 GGTAATGGAG ACATTGCCAA ATTATATTC TGTAAATTTN CGTTGGGTGA GGGGAGCATT ACATCATTAT ATAATGGTAC
 TTCTCAAGT TGCTGGTCAT CAGTTCTGT GTGTTGCTG CCAAATCTA AAGATATGAT TGTNTCTCA GCGGCTGGGG
 CCAGCAAAGT TAAAGCATCA GGTTCCTTCT TAAGTTT

SEQ ID NO:1234: (Length of Sequence = 313 Nucleotides)

CCAAGAAATC TTAATNCTT TATGTTTGA CTTTTGACT CAACAATTTT TTTAAACTT TTTGTTTTT NCTGAAAGT
 TCTTGTGTT ATGAGCCTTT TGTGTTGINC TCGTTAAATG CACTCGACCC AAAATTGGTT TGGCATATCG AAAAGGAGAC
 CAAGGAGGGA GGGGCTGGG CGTGGGAGT GGGGAGGAG CCCGAATGGA CAGAAAGTTG AGGATAAGAG AAGAGGAACA
 TAGAGACAGC CAGAAAGACA TGGGAAAGA GTGTGGAGA CAGAGAAAG GGAAGGCAAG GGAAGCCAA AAG

SEQ ID NO:1235: (Length of Sequence = 386 Nucleotides)

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CTCTCTCAGC ACAGCCTGGG GAGGGGGTCA TTGTNCTCCT CGTCCATCAG GGATCTCAGA GGCTCAGAGA CTGCAAGCTG
 CTGCCCCAAG TCACACAGCT AGTGAAGACC AGAGCAGTTT CATCTGGTTG TGA CTCTCTAAG CTCAGTGCTC TCTCCACTAC
 CCCACACCAG CCTTGGTGCC ACCAAAAGTG CTCGCCAAAA GGAAGGAGAA TGGCAGCCTC CACATCTCGG GTTCAAGTGA
 TTATCCTGCC TCAGCCTCCA AGTAGCTGGG ATTGCAGGTG TGCACCACCA TGCCTGGGTA ATTTTGTAT TTTTAGTAGA
 CACGGTTTCA CCATGTTGGC CAGGCTGGTC TGGAACTTCT GAGTGTAAAT GATCTGCCCA CCTTGT

SEQ ID NO:1236: (Length of Sequence = 401 Nucleotides)

AGGATGTACT TCTAGTAATG TCACTGAAAG CAGATATCAA AATTCATTAC CAGGAGTACT TTGCTGTTGA ATGGTTCCTG
 TGCCATACAG AGATAAGATG GAGTCTTTGG AAAGTGTGTT CTTTGCCACT TCTTCTGATT TINTAGTTTG CTCAGTGAAT
 AAATCTAGAT CCCAGATGT TACTGTAGAC AGGGTTCAG CTGCTGGTGC AGAGGGTGTG CCCTGAGACA AACACCAAAA
 TAAGCTATCA AATTCTGCAT AGTAAAGCGC ANTTAATCCA TTA CTTAAAA TCCAAATAAA GTTATAAAAT TAGATAGGAA
 TCAAACAATT GTAGAAGGTA AAATGGTGCC ATTCAAGAGG ATCACTTACA AGCCAGCCC ATATAAAACC ATCTACAATC
 A

SEQ ID NO:1237: (Length of Sequence = 372 Nucleotides)

TAACTCTTT CIN TCITCA GTCGGATTAT AGAGTGGAG CAAATGTCAT GATGANCTTT NAGGCTAGG CCTGNGTCT
 TGAGGTGTGT GTG GTGTGT GTGTGTGTGT GTGTGTGTGT TTCTTCTCC ATAATAGTCC CAACCCTAAA CAGGGGTATG
 GCACAGTACT TCTTATGAAC AAAAGTGCTA TTGGTCTACA AGGGGACTTG AGCCTGCACT AATTGTATTT GATTAGGATT
 TTGTGCTGT CTGTATGATG TTTAACCACA CTGTCAATTA CAGACTTCCT TTAAGGAATT TCCAGGAAAC CCCCTTACCA
 TAAGAGTTTA AATTAATAGT TTNCTAGTTT AATGACAGCA GTTGGTAAAG GA

SEQ ID NO:1238: (Length of Sequence = 304 Nucleotides)

GGACAAAATT CCAATTATTG TAAATGTAAA AGAAAAGACA ACAAAAATAA GCTAGAAAGA TGAAAGCTAA AAATCTATT
 TGA ACTATGT AAGATGATGA CAGATATTAA ACAGTAATTA GTCATGAAAC AATCATTTAA ATGCTTTTNC CAGGGGAAT
 GCAGAAGTGT AGACCCTCAA AGAGCATGCA AGCTAGTAGG GAGGCTGCGA CTCATACCTT TGAATCTTTC TGTCTGCAA
 ATTCTCAACT CTTACCAATT TAACTCTGCA GTACTGCTAT GGAAATTACA TAAGAGTAAA TTGG

SEQ ID NO:1239: (Length of Sequence = 389 Nucleotides)

TGTTATAACT GGCACTTTAA TTTGTTTTTG GAACTAGAAT TTAGGGGCAG TTGGATGAAA TTGCAAATTT AGAAGGGGAA
 TAAGAAATTC CTAGTGCTAT ATAAAGAAAT GATGATGGAG ACAAAGCCT TGCTTTCCTC TTTT TAGAAT TTATTTNCGA
 TTTNAGCAT ACTGTGGGCG TTTTAGAGCT AATATGATCT AAATNCAGAA AATTAAATTT TCATAGTAGG CCAGGTGTGA
 ATTACTTATG TTTGCTATAG AATGCTTATT TAGACTAACA ATAAATTTAC TTTGCTTTCT AAGGCCAGTC AGCGAATGTG
 GGGATGAGGC AGGATGTTTT AAATGAGCCA GAGATGATCC NCAAGGGGAA CAGTCGACAC AGAGGTCTT

SEQ ID NO:1240: (Length of Sequence = 365 Nucleotides)

CTCCAGCCTG GGCAGACAG CAAGACTCCG TCTCAAAAA AAAAGCCTTC CTGCCCAGGT GAAAGCAAGA GTGGTATGGA
 ACATTTATTT AAACATAAGA AGCAGAAGGT TCCTCCTCTT GCAAGTATGT TTTCTCTAAA TGTAGCATTT CCACTGGAGG
 AGGTGGTCTG GGTGGATGGT TAATATGTGA GGATTGTCNA GCCAGGCAGA TAACCAGGCC TCTGCATATA CAGATACCCA
 CAGCCCAGGA ATCTTGAGAA CTGAATGGCC CATAACAACC TCTGGCACTA TCGGAGCTGC AGGGAGGCTT GGCTGGGGCT
 ACTCCAGTCT CAGGCCCTG TTTTAGCGG GAAGTCACAA GGAGG

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SEQ ID NO:1241: (Length of Sequence = 350 Nucleotides)

GGGGAGGCGG TAGGGTCTGC NCTGTCTGTA AGGGGCTTGT GGCTTGGCGG GTGGGCTTTG CATGGTCTCG CCTCTTGAGT
CCAGCCCCGT CCTGATGGGG CAGACTTCTG TNCGTNCTGC TTCTTGGGTG ATGTCAATAC TGAATGAGAG GGCAAGAGAA
GGGGAAAGGG AACCGCCCAT ATGTNCTTCA CGTCTGCAA GGGGGCTGTN TGGTTCCCAT GAAATGGTCA GCAGAGACTT
TGGGATGGGT ATGACTCGTG GGTACACAGG TTGACTAGAC AGAATCTAAA GAAGGTGGGT GCTTAGCTNG GAAGTCTTCA
GTAGGAACGG ATCACTGTGA AGCTCTAGGG

SEQ ID NO:1242: (Length of Sequence = 392 Nucleotides)

CTCTTACGAG TGAGGTTAAG TATTGAACAG ATATTTAAAA GCTATAAGCT TTAAACAGA ATAGGCATAT TGCTGATACC
AGTATTGAC AACCGCCTTG TTTTTTCAGA TAAGAAACT GAAGCACAGA GACCATAAGG CATCAGCCTA TGGTCATTCA
CTTCGTGTA GTGAGTGGG AGGTACACACC AAGGCCCTCT GGCTACTGAT AATCTCTGTA CTAGGCTGCT TTTCAGTAAA
CTCTTGAATG AATGAAAGAA AGAACACATA CTGTTGACTT TTGAACCTGA ATCTAAACAA AACCTATGTT GAACCTTTAAG
TCTGTAATCT AAGAACTATC AAACCTTAAAC TTGTTACAAA AGGNGGTGAT GAGCACAAACC ACTTTCTTTT GG

SEQ ID NO:1243: (Length of Sequence = 377 Nucleotides)

GTGGGGCAGG CGTGAGGTAG GGGTGGGTG GGGATGACAG TCAACACAGC TTGGACCAGA AGCCCATGGC GCCTGGNTCC
CTGGAAGGC ACAGGGCACA GACGGATGCC GCCTTNTTG CTGGGACACT CTGCCACCA TCCACAGCTC CCCGCTCACT
CCAGCTTCTT GFACTTGGTG AACAGGTGT AAAGAACCCT CAGGGTGGAT TTNAGGTCCA AGTTAACCAC GTCTTCAGGA
CGAGCCTTGG GTTNTNTNAG GCCTCCGTCC AGCATCAGCT CAAAGGCGAA GGACACATTN TGGACCTTCT GATCGAAGCT
TTCCGGAGTC AGGTAGAAGT GGTGGAGAGG AACAAAGTAG TCTTCCAGAA GGCCCAT

SEQ ID NO:1244: (Length of Sequence = 312 Nucleotides)

ATTTTTCAT CAATGTCAT CAAGGATATT GGCTAAAAAT NCTCTTTTTC AGTTGGGTCT CTGCCAGGCT TTGGTATCAG
GATGATGCTG GCCTCATAAA ATGAGTTAGG GAGGATCCC TCTTTTNTTA TTGATTGGAA TAGTTTCAGA AGGAATGGTA
CCAGCTCTC CTGTACCTC TGGTAGAATT CGGCTGTGAA TCCATCTGGT CCTGGACTTT TTTTTCGTTG GTAAGCTATT
GATTATTGCC TCAATTCAG AGCCTGTGT AGGTCTATT AGAGATTCAA CTCTTCTCTG TTTTAGTCTT GG

SEQ ID NO:1245: (Length of Sequence = 320 Nucleotides)

GGAGATCGTG CACATCCAGG CCGCCAGTG CGCAACCAG ATCGGGGCCA AGTCTTGGGA AGTCATCAGT GATGAGCATG
GCATGACCC CAGCGGCAAC TACGTGGGCG ACTCGGACTT GCAGCTGGAG CGGATCAGCG TCTACTACAA CGAGGCCTCT
TCTCACAAGT ACGTGCCCTG AGCCATTCTG GTGGACCTGG AACCGGAAC CATGGACAGT GTCCGCTCAG GGGCCTTTGG
ACATCTCTTC AGGCCTGACA ATTTCATCTT TGGTCAGAGT NGGGCCGGCA ACAACTGGGC CAAGGGTCAC TACACGGAGG

SEQ ID NO:1246: (Length of Sequence = 275 Nucleotides)

TTTTTTTTTT TTTTTTTTTT ATCTGACAGC AATAGATTTA TTAAGTATCC CGGAAATAT AAACACAAAC CAGTAAAAAA
CAAAACCGTA AAACGTCAGG CCTGGAGCTG CAATAAGACA GAGACAGGAG CAGCTCACAC GTGGCCTAGG TGGGGAGGAC
GAGGCCATAA ATACTGCAGG AGGGCGGCAA GGGAGCCCTA GGGCGAGGG AAAGCAGGT NTCGCGAGCG AGATGGCTCC
GGGGGTTTAG AACTGTCTG CTTCGGCCCC GGCCG

SEQ ID NO:1247: (Length of Sequence = 384 Nucleotides)

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GGTCTTGCCG GAGAAGTACC CCCCTCCAAC CGAACTTTTG GACCTGCAGC CCTTGCCCGT NTCTGCTCTG AGAAACAGTG
 CCTTINAGAG TCTTTACCAA GATAAATTTC CTTTCTTCAA TCCCATCCAG ACCCAGGTGT TTAACACTGT ATACAACAGT
 GACGACAACG TGTITGTGGG GGCCCCCAGC GGCAGCGGGA AGACTATTTG TGCAGAGTTT GCCATCCTGC GAATGCTNGC
 TGCAGAGCTC GGAGGGNCGC TGTGTGTACA TCACCCCAT GGAGGCCCTG GCAGAGCAAG GTATACATGG ACTGGTACGA
 GAAGTINCAG GACAGGNTCA ACAAGAAGGT GGTACTNCTG GACAGNCGAG ACCAGCACAG ACCT

SEQ ID NO:1248: (Length of Sequence = 225 Nucleotides)

AATTGGAGA AGATAGAAGT TTGAAGTGA AACTGGAAG ACAGAAGCAC GGAAGGCGA AGAAAAGAAT AGAGAAGATA
 GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAA
 GACAAGCTAG GAAACAAAA GCTAAGGGCA AAATGTACAA ACTTAGAAGA AAATTGGAAG ATAGA

SEQ ID NO:1249: (Length of Sequence = 393 Nucleotides)

CATCTATAGT CCATACATAT CTATAATGGA CAGAAATATG AGAATGAATA AGCAAAGATA CITATGTACA CCAATAATAA
 AGTAAGAAAG GTAAAAAAT TCATGTAATA AGAAAAATA ACAACCCAGA AATTTAAGAN TTAAGTAGTA GTCAAATCTA
 ATTGAATAA CTCACCTATA TAAANACAA GAGGAAGGAA ACTTTATACA TAGGTCTGGA AAATATCACA ACTATGTTC
 CAGAAGANTG TTTATCTCCA CAGCATCCAA CCTAGTGTCA TGCACACAGT TGGGACTCAG CCACTGTGTC CTGATTGATT
 ATGAAGNCAG TCACTGTGAT CAACCAACA GTAATTGAAC GTTCATTTTT AATANGGTCA GTGTTAAATC TGT

SEQ ID NO:1250: (Length of Sequence = 391 Nucleotides)

CGTATGTATC TTINATTTAC ACTGCACACC TTGCAGCATC CTTACCTTGC AGAGTACTGA GTCCTGGCTT CATGAATTIN
 ATGTCAAGTA AATGGGTTTT AGTCATCCCT AGTTCATGTG CATGTNCCGA GAAAAAGGGG AGCTTCTAAA ACATGTGCGC
 AAACACAGG AAACAGTGCA ATCCTGTGTG TCTCCTATTC CACTTACTCC TCAAGGCCCC AAGGTAGGAC GCATGTTTGG
 TGGCTTTCTG GCTTACAAGT TCCAGTGCCT ACTCCCATTC CCTCAGAGGT TTGCTGTGAT CACTGAGGGG AAGCAGAATG
 GAGCATCGTG TGGTCCTTAC TGGAGGACTC CTTGCAGCAC CTGAAACAAC CCAATGTTGT TAGAGGCAAA T

SEQ ID NO:1251: (Length of Sequence = 320 Nucleotides)

GCCTCANAAG GTCCTTCCCA GGCTTCTCGC AAAGGAAGGC ACTGCCTCTN CACACCTTGT GAAACCTTTC CAGGACCTCC
 CAGTCAGAGG CCGTCTGGTT CTCATGTCTT GCAGAGCGCC CTACAGCCTG TCTGTGGGTG AGCGTGTCTG TNAACTCTTG
 TCCATCTCTT CTGTGATCTG TGTGCTCCTC GAAATAACTG ATTTTINCTC ATACACCTTG GAATCCTGAG TCCACAGAAC
 AGAGGCTCAT ACAAGAAG CTTTCAAAGA GTGCTCATCG ATTTCTAGGN TTCTTGAAGA CAGGCACCAN GTTTTGTCT

SEQ ID NO:1252: (Length of Sequence = 367 Nucleotides)

CAAAAAACA AAACAGTTA TGCAAAAAACA AGAGTACAAA ATGCCCTTTT CTGAAGCTCA GTTTGAGAAA CTGATTTGCG
 ATCTAGCTTA TTGATTATAC TCAGTTTCAA TTCTCCCTGT GCAAATAATA CATAAAGTCA TTAATGATGA TTGATGANC
 TGAAATCATC TTCGTTAGG ATCGTTTGAC ATCATAACCC AAATATAAAA AAGTTATTCA AGATTCACAG AGATAAACA
 GTGCCTCGGA AACATAATTC ACCCATGTAT ATATAATANT TTINGAACAT ACTTTTAA AATAAATCA CAGTCAAGGC
 AGTGATAGCA TTGCATACTC AGTGCATTAT TTCATGTAGT GCCTTCC

SEQ ID NO:1253: (Length of Sequence = 393 Nucleotides)

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TTGCTTTCAA GACAACACTC AGTTGCTAAA CCCATTTCCT TTTCCTTAGG ATATTTTCAT TGCTCCGAA TTTTAGAGCT
 GAAAAGTGCC TTAGAGATCA TCTAGTTCAA CCTCTCCGTT CAAATGGAGA ACCTGAGCCA CTAAGNTCA CAGGNGAGTA
 AGATAATTGA GCAAACAACT CCAAGTAATG ACAGAAAATT ATAGGAGAAT CAGTACAAAC TGTGAGAATT TACTATGTTG
 TTAGCATCCT AAGTATGAGT TTAGAAAAGG TAGAAGTTAT AAGAAAAGTT AAATTGTTTT AATATGAATG GGATTCCACT
 GTTACCTTCA NGNTAAAATG GAGACATACT TTTTNCITTA GGTATTATAG TTAAACGAAT ATTGTATCCN GTG

SEQ ID NO:1254: (Length of Sequence = 377 Nucleotides)

CAAAAGCAAG GAGATGAGTT GAAAGACAGT TTTTNCITTA GTTCATCAGTA TGGGATGTCA GCAGAACAAA AATTAAAAAG
 ATTAATTTC CTTTGTGATCT AAAACTTCCT TAGTTTGAGC AGTAGGTGCT ACAAAATTAT TTACATATCT TAGTATCATA
 GTTAAATGTA ATGTGTTTAG GAGAGGAAAA CAAAAGATAC ATTTTNCITTA AATTCATTAA GAAATTTTCA AATTCACITT
 GTAGCCCATG CTGNATAGAA TTGGGCTGTG TTGGTACATT TGAAACACTG TTTATGTTGC TTGAAACACT TATTNTTTTA
 ATCGCCGATG TGATGATGCC TATGGCCGAG ATCANATATA GCTAGATTGG CTAGGCT

SEQ ID NO:1255: (Length of Sequence = 307 Nucleotides)

ACAAATGTTA GCTTCTCTG GCCTAGAAAA AGAATAGGNT CATCAAGTCA TAAACGAAG TATGTAATTT CAGCACCTCC
 ACAAATGGC TTCATCAAAG AAGAGAATCC CATCATGTGT TACCTCTCCT CTCTAGGTTT TTCAGCTGGG GCTTTGCTG
 CCCCTCTACC TATGGCAGAA CCCACTGACT CGTGGNCTTT CCAGCACTTC CACTTGCTTC CATTAGACAC TTAACCCCGC
 TGNCCTGTC CTCATGCCAG GGAGGGCCAA TCTCCAGNCA ATGCTNCTGC TGGCTGTATG ATGACTG

SEQ ID NO:1256: (Length of Sequence = 326 Nucleotides)

TTGAGAAAAC TGCAGAAGCT GGAAGGTCAA TCTCTGACCT TCTTTCTGA GACACCTTCA TGTGACAGGT GTCCCACTTT
 ATGCCTGGAG GGAAGGAATG ATAACACAAA GATACCAAGA AGAATGTGAA GAGACCTTTC TCAGTTCCCC CCAGTTCAAG
 ACCATTATAT CGTACCCACT TTTGTCTAAT CANGCTTCTA TATGACTATC CATTCTTTAT CAAACTAAA CATAGAAATA
 TACGATTATC TCAATTTCTG TCTTTGNTTC TGAAGGCTCC TGTGTACAT AAAACTTACA TTAAATAAAT TTGTATGTCT
 CTCCTG

SEQ ID NO:1257: (Length of Sequence = 224 Nucleotides)

TTTTTTNAGA GGAATTCCTCA CACAGTCACC CAGGCTGGAG TNCAGTGGCG TNATCTTGGT TCACTGCAAC CCCTGCCCTNC
 NGGTTTCAAG CGATTCTCCT GCCTCAACCT CTCGAGTAGC TGGGACTACA GGCACCTGCC ACCATGCCCA GCTGATTTTC
 CTGTTTTNAG TAGAGACGTT GGCCAGGCTG GTCTCTTAAC TCCTGACCTC AGGTGATCTG CCGG

SEQ ID NO:1258: (Length of Sequence = 329 Nucleotides)

CAGGGGTTTC TTTCCCTACC CTTTGTGAAA ACCAATCAAT TACTAGATGA GTGGATGGAT GCAGAAAAAT CTGGGCTGAG
 CCAAAGTCCC TTTTGGAAT ACAAGCCATA ACATTGGAAG GACATCAGCG ACCTTGCTTT GTTTAGGTGA TTTTNCITTC
 AGCTGCAGGT AGTCTTGACA AGGAGCGTTT AANCAGAAGG CTCAAGATGC ATTCTTGTG TAGGTGGGNG AGAGCACTTC
 TAATGTTAAG TGGGGTACAG NTCAGCTGCC CCCCCACGTA GCCTGGACAT CGTCTTNTCC CCATAATCCT TNNCATCCCT
 ACAAGGTCC

SEQ ID NO:1259: (Length of Sequence = 374 Nucleotides)

GGTCATATGT TACATGCATG TTTGTCNAAT ATGTGTATGT CAGGNCCATC TTCACAAATT TNCATAGCCC CTTCTGTGAT
 CTGTTAAATA GGTATATTTA GCCAACCCCTC TCAGCATAAA GCTCCTACCC CAGCTGCTCC CCCTTCCAAG TGCTGCATC

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TGCTCTTGGC TGGGAGCTCG CTCCAGCC TGTAGGATGG CCACCTTGAA GGCTGTAACC CTTTGAAGA AATAAAGTCT
CCTTTTCTAA ATTTATAGAT TGTATGATTG TTTTAAGCTA ACAATAGCAA TGGCATTATC ACCTCACTTT CTGTGTGTGT
GCTTAGCATA GTACCTGACA CATGGCATT GAGTTGGTAG CTATTTTTTA ATAT

SEQ ID NO:1260: (Length of Sequence = 353 Nucleotides)

CTCAGTCAAA AATAGCAGCT GCTGAATTAG CATGGGCATA CCAGGCAAAT AAGCCTGCAT TGTATAGCG TTCCCTTGAT
TGCNCTATGA AACTGAGTAA AGTTTCATTT CCTGATTCAA GAATTGCAGC TAAAATATCC TCTGGACAAA GAAGAAGGGA
AATTTTTTGA TAACAGATGT GTTGACTCCT TACAGTATAA AGCCAATTTT TGTATATCT CACCAACAAT CTGGTTTCT
ACAGTACATC AATTTTAAGT AATGTGCCAA ATCATGGCAG CAAAATATG TTCCCTCTAG CTGTTAGGGA CTTTGACTTG
NAAAACAGGN GTTCAAATC ATCTTCTTCA TTT

SEQ ID NO:1261: (Length of Sequence = 294 Nucleotides)

TTAAACAGA CAGCTAAGAT TATAGGAATA TTTAAATAA ACAGCATTTA TTTTAGACAC ATTCAAATA GAAGCCACAA
TAATCAAATA GATATTATCT GAAAACGTTT CAAAATATT AACCTTTTAA ATGTTCTTCT CTGAAAAATT AGTTTATCTT
TAACAAATTA TTCTGAATTA TTGTGTCAC ATATAAGGTT ATGCATATAT ATNCACCTGC TGGTCTCTAT GTTAAAGCAA
ACTAGGTAAA AACTAGAGGA AATATCTGGA NCATAAATG GTTAACAATT TACG

SEQ ID NO:1262: (Length of Sequence = 292 Nucleotides)

ATGATGAAGG GTTGGAGTGA TGCACCTAGA AGTGAAGGAA TGCCAATGGT TGCCAGCAA GCACCAGAAA CTAGGGAGAA
ACAAGGAAGG ATTCTNCCAC AGTTTCAGAG GGAGAATGGC CTGCGCAACA CTGTGATTTT GGACTTCTGG CCTCCAAAC
TATGAGACAA TAAATNCTG TTGTCTTAGA CCACCCAGTT TGTGGAATTT TTTTACAGCA GAACTAGGNA ACAAATACAG
TTTTTTTTTG CAGTAAAGAA GTTTTAAATC TGGGTTATGT CCAATGTATC AA

SEQ ID NO:1263: (Length of Sequence = 303 Nucleotides)

GGTTGAGGTT GTGGGTAGGA TGAGAAGACG ACAGGATGAA TCTTACCCCT CAGCTTTAGT GGAATTCTGT GAAACACCTG
GGAATGTGTT AGCATCAGGA GAATTCCTCT AAGGTATGAA GAATGACAAC CTGGGACCTT TCTGTAGGT GGCTCTGAAC
CTAATATTTC CCCAAGATT CCCAAGTGGT AGGAAGGAGG GGGTGCAGAG GGATATTAAT CATGGTCATT AAGTCTCAA
ACATTCTAC TTCAAGTGAA TACATTAACC ATGCTGAGGC AGTGAACAA CTGAATGCGT AGT

SEQ ID NO:1264: (Length of Sequence = 313 Nucleotides)

GGGACTACAT CAAGCACCTG CGGACATCT GCGAGGGCTA CGTCCGGCAG TGCCGCAAGC GCGCAGACAT GTTCAGCGAG
GAGCAGCTGC GTACCATCTT CGGGAACATC GAGGACATCT ACCGCTGCCA GAAGGCCTTC GTGAAGGCC TGGAGCAGAG
GTTCAACGCG GAGCGCCAC ACCTGAGCGA GCTGGGTGCC TGCTTNTGAG AGCATCAAGC CGACTTNCAG ATCTACTCGG
AGTACTGCAA TAACCACCCC AACGCCTGCN TNGAGCTCTC CCGGCTTACC AAGCTCAGCA AGTACGTGTA CTT

SEQ ID NO:1265: (Length of Sequence = 290 Nucleotides)

TTTCTATGTG TAAGAGAAAA TAGAGATGGG TATACATACT GTTGTTTTTT TTGAGCCGAG AAACGTGTGT ACCGGGGCCT
CAGGTGGTGG GCATTGGGGG CTCTCTTGC AGATGCCCAT TGGCATCACC GGTGCAGCCA TTGGTGGCAG CGGTACCG
TCCTTTNTTG TTCAACATAG GGTAGTGGC AGCCACGGGT CCAACTCGCT TGAGGCTGGG CCCTGGGCGC TCCATTTTNT
NTTCAGGAG CATNTGGTTC TTTGGCGGGA CCCACGCAGC CCTGAGGATT

SEQ ID NO:1266: (Length of Sequence = 322 Nucleotides)

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CGGACAGATG TCACTCTCGC CCGAGAAGGG GGACACTGTG ATGGTGTCT TAAGCTCATA GAGTGGCAGG TTGTCTGAAA
 TGCCACCATC CACGTAGCGC ACCCCCTGGA GGGAGGGAGG GATGAGCCCA CAGTACACGG GGATGAAACC NCTGCAGACA
 TTGGCCCTGGA TGAGCTCGTC CTGGAGTTN AAGTGGGATA TAATGACATT NTCGCCGTCT GACACGCGGG TCAGGGAGAT
 GCCCAGGCGC CCACTGGCAT GCTCATGGCT ATCAGCAGGC AGGACCTTNA GCAGGAAACT CGGGATGATC TTTTACCAGG
 TT

SEQ ID NO:1267: (Length of Sequence = 310 Nucleotides)

GTAACCCATC CCATAGGGTT GINCTATGTA TTCTTGCCAG GTGGGGTGG AGCACCTTGT GAGCTCAGCA GCCCAACATC
 GATAGTAAGG GAGTCAGGT TTCTTCATCT TCCCTAGAGT TAGAACTCAC TTCTACAGCC ACTGTGTGAG GGACCACCTT
 GAGCGCCCTT GGCACCTGCT GGCTGGAAAT CAATTTAGCT GTAATGGATC TGGCCCAGCT TTTCTCTCT TGGGTCTCT
 GCACTCATAG TGGTTGAAGC AAGATCTACC AGATGGGGAC ATTGAGATGG TCCCTTTCTC CTCTCTCATTT

SEQ ID NO:1268: (Length of Sequence = 338 Nucleotides)

GGGCTGCTCG TGAGGATGGG ACAGCATGTA CTTACTGGGG AGACTCCCTT GATGACAGCC TTACACGGTT ATTCATAAGG
 AGGCAGGAAG AGGCGCTAAC AGTAAGCATG TTCTGGGTGG TCTTCGGGT GCACATGTGC AGCAGCTGTA CCTGCTTGCT
 TGTATGTAC ATGTCTCATT AACATCIGAA ATCTCCACCC GGGAGTGTGT TTTTINACTAT TATAATGAGC AAAGGTTGAG
 TCTGAGGACA GGTAAATCA AAAATGTGCA CCTCTTACG GGGGAAATTC CTTACTGGAG CTAGTTTGGC TTGAAGNGAA
 CTGGACTACA GTGTGAAT

SEQ ID NO:1269: (Length of Sequence = 363 Nucleotides)

CTGCTAGAGA GTATTTGAGG GTCTGCAGCA TGTGTGTAAG GCCATTAAAG ATATGTTAAG GCCATTAAAG GCAGTAATT
 TAAAAGGGCC CTGCTAAAAT AAATATCAAG TTCCCTTAAG AAACCTCAAA ATTATGAAAG TTTCAGGTCA TTATTTTGCT
 ACAATGANC TTAGCAGCTA AGNAAAATGT CTGCTGCTT ATAACTAAA TATGGTATAA TTATATATTN CTNTTATGTA
 TTTCTAAAGC TACATTTTCA CCTTAACCTT ACTACAAAGT AGTTTCGGGA AACAAAGTAA AAGCAGGGGN AATCCAACCT
 CAAATATAAT CAAATATAT

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GATAAGTGAG ACTAATGGAA TGTTTCCCT CTAACCTCAT AAAAACTTTA AGGATTATCT TTCTTGAGTT CTCTGTATTT
 CTGTTTTAGA AGAAAAGAAC AAAATTTGAG AAACAAGATT ATAGTGCTTT TNCTAAAGTA TAAATACGTG GGCCCTATAC
 AAACCTGGCA ATTCAITAGT CTTAAAGCAG ACATCCAAGC TATTGTGGGT GTTTGGATGA CACCATTTTC ACAGTAGGAA
 ATCATTTTAT TCTGAGCGTG GGAATCGGCA TTGGTTAAGC CATGAGGTTT TATGTGGTAT AAACACCTGG GAAGTGAGAG
 AAAAGNCAGC ACAGAAGCTC TGTGGGAGCT CTTCTGAGCA TTG

SEQ ID NO:1271: (Length of Sequence = 335 Nucleotides)

ATGCCTCTGG CTGTTTGAC TGCAAAAGGT GATGTGCAGG GGTAGAGGTA GGGTACTAAT TTACAGTCAC CAAAATTAGT
 ACTGATATTA ATCAGTTTAG TTGGATTAG ATGAACAATG TTAAATGCTT TAAGGNTCAT TTTTGGCCCC AACAGGACTG
 TGCTATATTA AATGACACCG TGCCCAAAAG CTCAAAAATT ACATAGAAAG TAAAGTACTT CTGGAATACT AAAACAGTTA
 AGCATAAAAG GTGTGTAATT GGTCCCAAAG TGATATTAACT TAAACATTT AATCCTACGN NCTATCTTAG CTGTACCCCT
 TAAAAATGCT TAGGA

SEQ ID NO:1272: (Length of Sequence = 323 Nucleotides)

314

GTTTGTAGATA TTTTAAGATA TTTAACTGTC CCCTGTGGCT TTTAAGGAAA AAATAAGTAT AAATNCTTGA ATATTAAGAN
 TTTTAAATCA GCTAAATTC A GGGCCAAGAA CTATTTAAGA TGATTCANTG AGAAAGAAAA GGACCTAACC TGGAAAAAGA
 GTTTC AAATA TGCCAGTACG TAGGGTATTT NTGGAAATAC ACAGTCTAAA ATTAAAAATT NNAACTNATC AATGGAATTT
 AAATCTATAG CACTTTAAGG CTGTGGAGCC CAACANTAGG GGNTACTTTG GGGGCACATG ATCTTTTCAA ACATAAATTA
 GGG

SEQ ID NO:1273: (Length of Sequence = 368 Nucleotides)

GCAGCCTGGG CAACAAAGCG AAACCCTGAC TCAAAAAAAA AAAAAAAA AAAGTCTCTT AATCACAACA GCAAAGCTCC
 AAAAGTTCAA GCATCACAGG TAGCTAGTGG CTACTATATA GGNCAGCACA GACACAGAAC GTTTC AACA TCACACACAG
 TTCTANTGGG TAGCAATGAC CTATACTGCT GACCATGCTG NCCAACATGT NTGCAGCAGT CCCTCATCCC TCTGTNGTCC
 CCTGTTACAA GCTTAGANCC CCCTCCNNAC GCTCCTCCCC CATAACAGG GCAAGTNGGG CAGAAGGTGG AATCCTTTTC
 AGGGGGCAAA T

331

GCAATGGGAT CTGAGCCAA AGAAAAATAT ATCTGAGTTC TAGCTCCTCA CTAAGTAACT GTGTGATAAT GGGTATGTCA
 CTCACCTCTT TTAGCTTTT GGTCTTTTAT GTGTAAAGG GAAAAACATA TGCCTACATC ATAAGGCAGA TGTGAACATC
 AAATGTTATC AGTAACTGTC AATCTGTTTT ATTAATTGTA GAATGTCCAA AATATTAGTT TGTATGGACT TCAATGAGTA
 TGTMTTGTGG AGTGGAGTGG GGGAAAGGGA TCATTGCTTA CCCTCTGCAC ATATCATGTT TCAGCCTAGT ACAAGGCAGC
 CATGAGCACA AAGGGCTAAG CTACTTAAAT CAGNCCCCAA ACAACTTC

SEQ ID NO:1275: (Length of Sequence = 319 Nucleotides)

AGATTACTCT TTGCAGAAIT TTGGTTAATT GTGAAGCTGA AATATCCTGA CTCTACCTCA AAGTTAATGT TTTAGGTAAC
 TGAACAGGTA TTCTNCCCAT TACTAGTATT GAAGTCAGAA TACAGAAACA AATAGTTACT GCCAGAAGCA GAATGGAAGA
 GCCAAAAAGT ACACAAAATG GACGCCATAA ATNCTGAAAT AAAAGTGTAT GATGTGTCTT GAGTCACTGT AGAAGTCATG
 CATTTAATTAT CAAGATAGAA AAGAGCAGAG AATGACGTGG GACATTGGTC CTCGGAGGGC TTCGTANGTG GTTCGGTCC

SEQ ID NO:1276: (Length of Sequence = 324 Nucleotides)

CTGCATTGGG CAGGACAAAA CCTGCCAGAT TCAGAAGGTC ACGANTCATC TGGCCTTTAA TGCTGATATC CAGTGGAGAG
 CTGGAGTGGG GGCTTGGGGA AATATTGACT TCCAGGACCC AGGGCTTGAG GTTTTCNTCT AGCATGATGT CAAAACCAAA
 GAGTTCATGG CAGCTATAGG GCCGTGCGAC ATACATCTTG AGCAGGCTGG TCACATAGGG CTCTGACGAG ATGATAGTTT
 TGACAACAAC ATCCTTTATC TTCTCCAGA TGGCGTCGCT ATTGATTNCC CTTCTGGGCT CAGGTAGTTC CACAAAAGCC
 TTCA

SEQ ID NO:1277: (Length of Sequence = 388 Nucleotides)

AGCAAGGCGG TGGGGTAAGT NTGGACCTTT GTGTACCAGA GAGAACATCA TGGTGGCTTT CAAAGGGGTC TGGACTCAAG
 CTTTCTGGAA AGCAGTCACA GCGGAATTTT TGGCCATGCT TATTTTNNIN CTCCTCAGCC TGGGATCCAC CATCAACTGG
 GGTGGAACAG AAAAGCCTTT ACCGGTCGAC ATGGTTCTNA TCTCCCTTTG CTTTGGACTC AGCATTGCAA CCATGGTGCA
 GTGCTTTGGC CATATCAGCG GTGGCCACAT CAACCTGCA GTGACTTTGG CCATGGTGTG CACCAGGAAG ATCAGCATCG
 CCAAGTCTGT CTTCTACATC GCAGCCAGT GCCTGGGGGC CATCATTTNG AGCAGGAATC CTCTATCT

SEQ ID NO:1278: (Length of Sequence = 354 Nucleotides)

315

GGACTTGTAC CCTGGGTGGT GAGAAGACCC TGATTGGTTT TATTAGTGCA TTTCIGTAAG TNACTGGGAT AATCATGTTT
 AGTTCAGCAT TTTATGTGAG TTTCTGAAAG CNCTTTAATC AACTCCATAG ACAAGATTAT AGTGTTCAC AGCAATAGGC
 ATGGGCCATG TCTGCACTGG AGGTAAGTTG CAAGGTACAC CCACGGGTGA TTTATCACTC TTACAAAGAT GATAACTAAT
 GAAGACCGCA TCTAGAATGC TCTTACTGGA GATGGTTTAC AGAGCATTTT TAATCATCAT ACTTAGATTT ATATTAAATAT
 TTCTTTTCAA ACTAAATTAT TCCAACTGT GCCC

SEQ ID NO:1279: (Length of Sequence = 347 Nucleotides)

CCACITCAGT GCTTCTGTGT CCGAAAAGA TCTTTTGACG CATAGGGCCT AACTGTAATA CACTTAAAGG ATAAGTCTCC
 ACCCCAAGGT GAACATGGGT CATGTGTAC ACGCACATTA GTTCATTATC CATGTGTGAG GACCTCCTTT GTGAACAGTC
 ACAGCTCCTC CTATAACCTG TTAAATATGT ATGTTTGATC AACCCATTCA ACTTAAATNC TTGTCTTACC TCTCCTTCCC
 TCAAAGTGCC TGGCTATACT TCCCAGCCTG CGGGATGGCC ACCTTGCCAGG ATGGAACCCT TTGTAAGAAA TAAAGTCTCC
 TTTCCAAATG TACACATTGT ATGACTT

SEQ ID NO:1280: (Length of Sequence = 344 Nucleotides)

ATCCTTAGCA TGCTGINTT ACTGAGACCA TAAACTTTTT TTTTTCTCTT CTGCCTTCAC CCAGTGTGTG TTAAGTCTTG
 CTGTGTAAGC TCCCACACTT AAATGGCTGC TTGCAGAATT GCAAAGGGAC TAGGGAGAGA ACAAACAG ATATGCAGGT
 GGTGGTTGTT AACCAGACAG GATTTCTAAG GAGGGTTCAG GCAGTCAAGT GGTTTINIGT ATGINTTTTA TGTTCATAGT
 TTTGAGTTTT ACAATGTGTG AAGCTTACTT TTGCTAGCAT TAGGTATAGT TTATTTTGAA AGAATGAGGC TCTGAAAAAT
 AAACATGCCC AGTAACTAT ATCT

SEQ ID NO:1281: (Length of Sequence = 331 Nucleotides)

TGAGGAACAT AAAATGGCTT GGTAAAAGTA ATAAATCAG TACAATCACT AACTTTCCTT TGTACATATT ATTTGTCAGT
 ATAGATGAAT ATTACTAATC AGTTTGATTA TNCTCAGAGG GTGCTGCTCT TTAATGAAA TGAAATATAT AGCTAATGTT
 TTCCCTCAA ACTCTGCTTT CTGTAACCA TCACTGTTTT AATGTTTGTG TGTNCTTCAT AAAATTTAAA TACAATTCGN
 TATTCTGTTT CCAATGTAG TATGTATGTA AACATGNTAG TACAGCCATT TTTTTCATAT GTGGAGTAAA AATAAAATTA
 GTATTTTAA A

SEQ ID NO:1282: (Length of Sequence = 310 Nucleotides)

CCATGTCAAA TGTAGTTTAC AAAGGGAAAG GACAAGTACC TTINTATAGA ATATACAGAC ACAGCATCAC ACCACAGGGC
 CCACGGGAGG GTCGGGGAGA CGACACTTTT TCCCTGGGAA AGGCAGCTCT AATCCCAGGA ATGGTTCTCN GCAGAGGCTG
 GGTGGCCAGG AGCACTGTCC TCTAGCCCC TAACTCAGCC TCTGCTTCAN CTCGGTTCCC ATTTCTCTGCC TCTACCCCC
 AACTCCTTAT AAAGAGCCCC ATGAGCTAAG ACTAAGGAGA GGTTCAATNC CCTTGGGGCG TGTGCCCCAT

SEQ ID NO:1283: (Length of Sequence = 323 Nucleotides)

ATGAGGATTA ATTATATCTG TMTACCCAC ACAGCTCCCC CATACCCATA ATCTTTATTT ATTINCTTCG TTTCTTCTTT
 ATACCTTGTG TCAGGCATTA AACCAATACC TGTATTATAT NCTATCCTTT TCAAAACAGG TGTGGACCAT GCACAGATGA
 CCTATGACGG GCAGCACTGG CACGCCAGG AAGCCTGCTT TMTTGTGCC CAGTGTAAAG CCTCTTTNTT GGGATGTCCC
 TTCTTCCCA AACAGGGTCA GATTTACTGC TCAAAACGT GCAGTCTTTG GGTGAAGACG TCCATGGCCT CTGAATCTTT
 CCG

SEQ ID NO:1284: (Length of Sequence = 283 Nucleotides)

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TTTTTTCACA AGGTGAAAGA CCTTTATGGA CATGACAGAG AGGACCTGAG TTAAGAGGGA AAATACATCT NCATAGCTAG
 GTTCACATTC AGTTATGTTA GTCCCAAACC TACAAATTCA ACATGATCCC TATTAAAATC CTACCAATAT AGTTCAAAG
 CTTGACAAGT TGATTGTTAC ATTTATATGA GAGANTAAAT AAAAAAAAAA AAAATAGGGC CAGGTGCAGT GGCTCACGCC
 TGTATCCCA GCACTTTAGG AGGCCAAGGC GGACAGATCA CTT

SEQ ID NO:1285: (Length of Sequence = 341 Nucleotides)

CATTCTNATG ATGTAGAGGC CAAAATGGTA TTTNATAAAG AGGAAATTAC TTCTGANCCA CCCAGCTGG AACACTGGT
 AGTATCGGCA GCAGATGTGA TTACATCCGT TTTGGTATTA CACATCGTAT TTACAGCAGA CATGACTGAN CTGGGAACAC
 TGCCCTGTGA GACAGCCTGA AAGTTTTTIN CAGATTTTNT GTGAACACTG TCTGAATTCA CATTTGGCAA AATGATTCTN
 CCAGTTTCTC CGGCTTCTGC TAGTTTGAGG CAATCTGTTT TATGTGCCCC AGCTGAAGAT CTTTCACTAA CTCGATCTTT
 AGAAGCTAAC TGCATTGCTG G

SEQ ID NO:1286: (Length of Sequence = 354 Nucleotides)

GCCCTATTTG TACAAAGTGT GCATGTAAGC GTGCGTGTGT GTNITGCATT TTTCCCCCTT TAGGTGGTTC AAATTTGGAA
 TTTGTGAAGG CAGAGCTGAT AATTAGAGAC AATAAAAATC TGCAAGTAG ATGGTTCCAC AAACAAGACT ATGAAAGAGG
 GGATAAAGA AGAGGTCAAG AAAGACTCAA GAACAGTATA TAGAAATAAT TCAATTACAT TATGTGTATT TTAAGAAAA
 CATGTTCAA CTGCATGAGA CAGAAAATAG CACTCNGTTA TCCTCTAGA CTTCTNAAAG TTTTGAGTTT GTCTGCAATC
 TTTTCCATT AATCGNCTTT TGCCATCTTC AGAA

SEQ ID NO:1287: (Length of Sequence = 354 Nucleotides)

CTCTCTACC CGGTGGCTA TAGCCCCCA CGTGGTCAGC AGCTGCCTCA GCCATCCCAG CAGCCTGGTT TACAGCCCAT
 GATGCCTAAC CAGCAGCAGG CGGCTTACCA AGGCATGATT GGGGTCCAGC AGCCACAGAA CCAGGGCCTG CTCAGCAGCC
 AGAGGAGTCA CATGGGGGGC CAGATGCAAG GGTGGTGGT TCACTACACT CCACTGCCTT CTTACCAAGT TCCAGTGGGT
 AGTGAAGTCA AAAATGTGGT CCAGCCGCCT TCCAGCAAC CCACTGTGGT CCCTGTGAGC CAGTNTGTGC AAGGAGGCCT
 NCCAGCAGCG GGGGGTACCA GTGTACTATA GCAT

SEQ ID NO:1288: (Length of Sequence = 231 Nucleotides)

TTTACTTAAT TGGTATAGAT TGAGNATCAT GCATCANCA GCACTTTTGA AATTNTCCCC AAGTGATTCT NACCTGCAGC
 CTGGGTAAGA AGTCGCAGG CTCTGGATA GTCATTAAGT GAACTGTGGT AAGCACTGAT GTAGCAGGAT TACCTGCCCT
 ACTAGGTGCC GGAAGTGCAT TTNCTTGCTC ACAAGTAATT TTTTAAATG TATGCTCGCA TCCCTGCCTT G

SEQ ID NO:1289: (Length of Sequence = 329 Nucleotides)

GGACACTGTG AGGGGAAAGG ACAATTTTAA AATTCTTTT CAAGGAAAAA AAAGGTCTTT ATGCTTTGCC ATGAGGCCAC
 ATTACGTGCT TATTTAANCT TAATATCTTG AACCTAAAGA ATGCTGACTT TNCCTACATT TCCAGAGTTA GGCAGTATTC
 TACACTTAAA GACTACTACT ATTTNATAA AAGGTAATCT ATTCAAATTT CTTACAGAT TTCCCTTGCT GGGGATCAGT
 TAGTAAAGAA GGAGGAATTC CTCTTACCCA AGAGGAATTG CATTGCTTTA ATTTAGCAAT GTGAGGTAAG GCCTGCCNAG
 TGCCAGGG

SEQ ID NO:1290: (Length of Sequence = 297 Nucleotides)

GGAGGCACAT GTGCAGCTTT GTTTCATGGG TAAATGTCAT GTTCTGCGG CTAATGTGGT TTCTTTTACA GAAAAAGTA
 TCAGAAATAA TCGGTTAACT TTNCTCACAT GGTCTTAACT CTTCTTCAGG AAATATCTAA CTTGTAAGTG CAATCCTTCT

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TGTATAGCTG CCAGACCAGA CCCAGATAGA CCATAATAAA ATAAAATACA CAGTCAGTTT TTAATGCAAG CCAGAATGAC
TCINCRGTAT CTTTAGCCTT TCCAGGGGGA TACAGTGAAC TCAGATATCC CTGCTTA

SEQ ID NO:1291: (Length of Sequence = 317 Nucleotides)

CTATAATCCC AGAAGTTTGG GAGGCCGAGG TGGGCGGTC ACCTGAGGTC AGGAGTTGAG ACCAGTCTGG CCAACATGAT
GGAACCCCAT CINTACAAAA ATAAAAAGCA AGATATGCAA AATAATGTGC CAGTNTGGTG CCGTATACCT TTAGTCCCAG
TTACTAAGGA AGCAGGGTGT CTNAAACAGA AGAATCACCT GAGCCGAGG AGGTGAGGC TGGCTAAAA TAGATCTGGG
GGTAGTGGTT AATNGGCCT TGTAATNAT TCAGCATAAG GAAGTGTCCA ATATTTTTTT AAGCTGTCAG AAAATCC

SEQ ID NO:1292: (Length of Sequence = 293 Nucleotides)

GAAGATGGAA ATAGACCACC ATACAAAACA AAAAAGACAG AAGAGAATAT TAGCACTCTG TTGCAAAGGA GAATAGGTAT
GCTCACTGG TAAGTAGAAT GCAAATATC CAATATCTGA AAAAAATCCC AAATCCAAAA TACTTCTGGT TCCATGCATT
TTTNCIAAGG GATACTCAAC AGGTATTTTA AAAGATCAA ATACAGATCA GAGAATATGG ATACTTGAAG ATTATGAGCA
AACGAGGATT AAGGNAACA TGTTGGAGGA CTTTITAAAA ATGTGTTAA GGG

SEQ ID NO:1293: (Length of Sequence = 310 Nucleotides)

TCCCAGAAAC ATTACGGTTT GATATCAAGT TCCTATTTTA AGAGTCACCC ATTGCCCCAC CATAAGINCC TGGAGAAGGT
AGGGTATTAC AGGACTAACC TTCCAGTGGC TGATTCTGGT GGTTCACACA TTCAGGTTTC TCTGATTTTN ACAAGCTTTT
TCCCATAAG ACTGCATTIN CTTTAAAGC TTCTCCTGCA AANAGCCAT AAATTGAAGC ACCAGTGAAG ACAATAAGT
AACATACAGA CCGTTTCATT GGGAGGGGCG CCNGAATGNG AGACAAATAA GTCCCTAGTA AATGGCATT

SEQ ID NO:1294: (Length of Sequence = 275 Nucleotides)

GAATGACGAT GTCAGGGGCA TCAGGAAAGG TAAGGGCCGG GAAACCGGCG CCTTGAGAGG CCCTGCCCCG GGGAGGCCCA
GCCTACTCAC AGGNTCCGAC ACTCCAGGCA GAGCAGAGGG CAGGAGAGGC CCAAGAGCT AGGTCAAGCA GCTGGCTCCC
CTGGGGTTAA ATACATGGGT TTTTGTTTTA CTGCTGTGCT TGATATACAT GAAGTAATGA ATACCAAGCA ATTCATTTTT
CCTGCATCTT TACTTTTACA TTTGINCTTA GGTGCCTAA AACATTINAA ATACAATAAA ATGAGTGTAG CAAAAATTAT
TGAAGCT

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CAACCTCTGC CTCCGAGTT CAAGCGATT TCCTGCCTCC CGAGTAGGTG GGATTACAGG CATGATCCAT CACGCCAAC
TAAITTTTTA TTTTAGTAG AGATGGGGTT TCTCCGTGTT GGTGAGGCTG GTCTCGAGCT CTCGACCTCA GGTGATTAC
CCACCTCGGC CTCCAAAGT NTTGGGATTA CAGGTGTGAG CCACCGCGCC AGGCTACTGG TCTCAATTCT TTTGGATACC
CAGAAGCAGA AATGCTGGGA TCACATGGTA GTCTC

SEQ ID NO:1296: (Length of Sequence = 247 Nucleotides)

GGAAGGAACA ATTGATAAGA ACCGGGGACA TCAGGGAGAG AGAGTATTTG AGCTGGGCTT GATTCCATCG GGTAGTATCT
GGAAAAAAA AAAAAATCC CAGATGAAAG AATGTACAAA GACATGAGCA TGCAGGGCAC ACTTTGGAAA ATGGNGAAG
TCTGACAGGC CTGGGAGAAT GAAGACAAGT TAGCACCAGN TTNAGAAGGC CTTGATTACA NGGCCAAAC TTTTGGATT
TACACTA

SEQ ID NO:1297: (Length of Sequence = 246 Nucleotides)

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GACTTCTTAC AATGCAGCAG CAAGAGAAAA TNAGGAAGAA GCAAAAGCAG AAACCCCCAG TAAACCCATC AGACTTCGTG
AGACTTATTC ACTATCACTA GAATAGCATG GGAAAGACCA GCCCCCATAG GTCCACTACC TCTCCCTGGG TCCCTCCCAA
AACATGTGGG AATTATGGGA GATACAATTC AAGTTAAGAT TTGAATGGGG ACACAGTCAA ACCATATCAT TCTGCCCTTG
GCCCT

SEQ ID NO:1298: (Length of Sequence = 263 Nucleotides)

CATTGCACTC CAGCCTGGGC AACAGAGCA AACTCCATA TCAAAAAA AAAAAAAAAA GAATTGCTGA CCTTTATGTG
TTTCTGTTA AGTTCACAAC AGTCATAATT CTGTAAATA CAAGGCAAAA CTGTAGTTTC TGATACTAGT AATATATCTA
ANTCAGTAAG TAAAAAGGAT GTGTAAATC TTAATAGGGG AAATAATTAT TGTATGANCA AGCAATTTCA AAATCAAAAG
NCACGTTTCA GTATATATTA TAG

SEQ ID NO:1299: (Length of Sequence = 272 Nucleotides)

ATCINATTGT TGTGTAGITT ATGGCAGTGG TCTCCAGACT TTTTGGCACT AGGGACCAGT TTAATGGGAG ATAATTTTCC
CATGGACGAG GGGATGGGA GGAGGCAGGG GTGGTTTCTG GATGAAACTN TTCCACCTCA GAAGATCATC AGGCATTAGT
TTCTCATAAG GAGGCAAAAC CTAGATCCCT TGCATGCACA GTTCACAATG GCACTCGTGG CATATNCCGT CGACAACCCT
TTTTTGAGGT TCCATGCTTC CCATTGGCT TT

SEQ ID NO:1300: (Length of Sequence = 277 Nucleotides)

ACCACTGCAC TCCAGCCTGG GTGACAAGAG TAAACTCCA TCITAAAAA AATGTGTAAA ATGAAGATTA TCATACTACC
TACATCATAG AATTGTTTTT AGTGTAAAT GTGTGTGTGT ACATTTATGT AATAGTTAAC ATTTAAAGAG CACCTACTTT
GTGTAAACAT ACTTTGTATG AGATACTGTT CAAATATATA TNCTAATATA TGCAACATAT TATATATGTN AGAATAGGGT
CTTATATATC TTAGGAAGTT AGATCTTATA TGTTTGA

SEQ ID NO:1301: (Length of Sequence = 304 Nucleotides)

GGTTGCGGGT TATGTAAATC CCAAACTTAT GAACAGGAAA TGTGTACAGT GCATGATAGG TTAAATTTTN CTTTATTGTT
GTCCAACGCA GGTCTTTGG AGAGAAAAA AGATCACAGT GCTGACCAGG TAACTCAATA GGTAAAGTCA AGGTAACCAT
TGAAAGATAA TAGGATTAGG GAGGTGTTTA TTTATGGCA TCTTCTCTCA TGGAGTTCTT AGCACTTCGG ACAATTTGTC
TNTCCCCAC TTTGTACAGC TGTATGTGT CATTACCAG CCGCTGTAT TTAACCTGCC TACT

SEQ ID NO:1302: (Length of Sequence = 335 Nucleotides)

AGTTTATTGC CATAAGAAA ACATTTTATA AAATAATATG GTAGACTTCT ACTTCAACAT ATTCACGTAA AAACATCACA
GTGCAAGAAA GTGATCACA TTAAGCATGA AGACATCAA AGCCAGCCAG TATTTTAACT ACAGAGCAGA ATATTCTTGC
TGTCCTTCC TAGAAAATGT TGGCACATTC ATTAAGTCT CAGGTTACAA AAATCACTTC GTGTCCACTT CCTGTCTTC
AATATATTIN CATAACTACA CTGTGTTACA TTAATGCTGG TGGACAAATT AGCTCTATA AAATCTAAAA ACCTTTTCAG
GTGGGCACAA TGGTT

SEQ ID NO:1303: (Length of Sequence = 316 Nucleotides)

TGGAGCTGTA TATGGTCCGG AGTTATATGC AGCATCCAGC TTTCAAGCAG ATGINTCCCT AGGCAATGAT GCAGCAGTGC
CCCTATCAGG AAGAGGGGGT ATCAACACTT ACATTCCCTT AATCATTCCT GGCTTCCCTT ACCCTACTGC AGCCACCAG
GCAGCGCTT TCAGAGGAGC CCATTTNAGG GGCAGAGGGC GGACAGTATA TGGTGCACTC CGAGCGGTAC CTCCAACAGC
CATCCCCGCC TATCCAGGTG TGGTTTACCA GGGACGGATT TTACGGTTGN TGACCTCTAT ATAGATTCTG CAAACT

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SEQ ID NO:1304: (Length of Sequence = 211 Nucleotides)

TATTTTTTNC TTCTCTCTC CCTACATATA TTCTAAACCT TCTAAAGTTT TTTNATTTTT TTAAGGATCA CTTTATCATA
 AAATAAAATA TCCTTTTCAT ATAATAAATT ACCTAATAAA AAGTCTTTTT TTTTCATATT AGCCGAGGIN CTTTGCTACA
 TTTATATGGT AATAAACGCC TTTATTAAAA TAGANTATTA AATTATAAAG A

SEQ ID NO:1305: (Length of Sequence = 316 Nucleotides)

GAAATGATTC AGGGAAAAA ATTTATAGTA CGTTTTCAAC TTTTTTTTTT TTTCTTTGAA ATGGAGTATG GTCATAAAAA
 GGACACTAAA TAACCTGATT AAGCTAGAGT ATAGACCAAA TTGCCACTTA CTTTGAATTG TTTTACCAC AGGTATCACT
 TTGAATAAAG ATAACTTTCA TTAGACATCT ATCTTTATGT GTTCCGTCCA TCATTTTCAGT GAGATCAGAG GAAAGTTAAA
 TTAGGAACAA TGAAAAGCT TAAGAAATGA ACAATCATCA TGCTTTTGTG TATGCTTAAA GTGAGTACAT GTAAAA

SEQ ID NO:1306: (Length of Sequence = 310 Nucleotides)

GGGATTTTT GAAGGCTTGG CTGTGGATGG CCGAGAACCT GCTCGGGGTG TAGGTCTGTG TGTCTGGGGG ACAGTTTCCA
 CATCTGAGCA CACGGACTGG ATTTCTGAAA TGTCAAAGTC TGATGCATCA CTGCCTCGGC GGCTGCTGGC CCTNCTGCCA
 GCTTGTCTTC CAGCTCGACT TCCGTGGTGG CTGGGAGTCT TCTTGGAAATC AGCAAAGTGT GTTGGGACTC TGGCAGNTGC
 AGTTGTTATC AAGCCACTGT CTTCCCCANA GTGGAAGCCT TTCCCTGATA AAAATCCTGG AAGTCGAAGC

SEQ ID NO:1307: (Length of Sequence = 302 Nucleotides)

TAATAAATAG TATATGTAGT GAAGAAAAAG TTATAACAAG TATACATTAC ATTTAACACA CCTAGCACAT AGGACACCCT
 CAACAAACAG CTACAGCTGC TGTAAATCAT GTGTATATAA TATAACATGC AAGCATATCT TCATGTATTG ATTAATTACT
 ACTTCTTGGA AAAGGATCTG AGGAACATAT TTAATATATT TNATATGCCT GCTCATATGT NCATTTAGTG CTTATCAATT
 ATATTTAGTG CTTTCTTATT AGCTTCATCC ATTTGATTAA GATAGCAACT TGTATTATTT AA

SEQ ID NO:1308: (Length of Sequence = 285 Nucleotides)

CGCGGCCCAA CGTGGTCTTC CTCTACATGC TCTGCAGGA TGTATCTCC TCCGAGGTGG GCTCGGNTCA CGAGCTCCAG
 GCCGTCTGTC TGACATGCCT GTACCTNTCC TACTCCTACA TGGGCAACGA GATCTCCTAC CCGCTCAAGC CCTTCTGGT
 GGAGAGCTGC AAGGAGGCTT TTNGGACCN TTGCCTCTCT GTCATCAACC TCATGAGCTC AAAGATGCTG CAGATAAATG
 CCGACCCACA CTACTTCACA CAGGTCTTCT CCGACCTGAA GAACG

SEQ ID NO:1309: (Length of Sequence = 319 Nucleotides)

TTTCCAATTA TTATTTTGCC AATATCCTCA ACTCTTTTGC CCACTTTNAT CTTCCATTCA ACCCTCCCTG CAAAATCCTG
 ATCTAAAAGC AACCCAAGTA TTGCTCTT CAACCTCCCA GCTGCTGAGT GGTTTTGGGA ATTACACAAC CACTAAGCTT
 GGTCAGATG CACTATGGCC TCAATAGAGT CCCCCAGTGC TGCCCACTTT CTCCTTCCAT ATTTCTCCAC AGCAGCTGGT
 CAAAATACAT TTNTCCCAA ATGCTTTACA CAACCCCTT CTCTCTTATC ATCCTTANCT CACCCCCACC CCAGTTCTT

SEQ ID NO:1310: (Length of Sequence = 356 Nucleotides)

TGAAGTTTTG CTCTGTGCG CCAGTCTGGA GGGCAATGTG CGATTTGAGC TCACTGCAAC CTCTGCCTCC CGGGTTCCAG
 CGATTCTCCT GCCTCAGTAT CCAAGTAGC TGGGATAATA GGCATTGCA ACCATGCCCA GCTAATTTTT GTAGTTTTAG
 CAGAGACGGG GTTTCACCGT GTTGGTCAGG CTGGTCTTGA ATTCTGACC TGTGATCTG CCGGCTCGG CCTCCAAAA
 TGCTGGGATC ACAGGCATGA GCCACGCAC CTGGCCCTAT ATCTGCTTC CTATCTCTG GGTATGGTG TATGGCTTTT
 ATTTATTTCA ACCTGCAGTT GTTGCAGAA CATCTG

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SEQ ID NO:1311: (Length of Sequence = 331 Nucleotides)

AGCTCAGATT CATGCTCTGA GCCAAACAAG TGAATGTATC TNAGAAGACT CAGTACCACA TGGTACTGGG AGATCTTACT
 CACTTCAGCT GGGGTTGCTC ATTAGTGAAT GTATGACAGC AGGATGTGAG GGGATGCCCA GGAGTCAGTG TTAGCATTGT
 CATCTGAGAT CACTGCTATT AATATCATCC ATTAATTTAT TAGTGAGCTT CACTATATGC AGACTGGGAG ATAAGGAGAA
 AATCTGTCAC ATTCTCTCTA GCTAATCAGA TCAGCTACCA ATTAATGAGA TTCTGAATGA AATATCAATA TGTGTTTTTC
 TAATTTGGAC C

SEQ ID NO:1312: (Length of Sequence = 347 Nucleotides)

TTTTTTCCTT TATAAATTAC CCAGCTTCAG ATTTTTTINAT AGCAATGCAA AAATGGCCTA ATACACTTCA GAACCTGGAA
 GATTAGCAGT GAGAAATAAA ATCAGTTAAG TTGATGACTT CTAGTATTTT ACTACATGGT TGTTTTGCCA AAATGAAGGC
 AATATCAGTG TCTTCACACT TAAAAAGTAG TATATTGANC TTGAGGTGA AAGAGCTGGG GTTTAAATTT GTNCTTTACC
 AATTATTGAG ATAAGTGTCC TTGAGCAAGT TACTTGCTTT CNCTGATCTT TAGTTTTCTT ATTTGTGAAA TTGGAAATGG
 TGGTGTTC A GAGGGGGTT GTATATA

SEQ ID NO:1313: (Length of Sequence = 336 Nucleotides)

GAATTCCTCT ATCAAAGTGT TCATAAAACC TGGAGCTGCA GCTGGCCCCC ATTAGGTAGT TTCTTGGTGA ACGTTTTCCA
 AGGAAAACTT TTTTTTAACA ACTTCATAAA GCCAAGCACA AAAGGACATT GCAATGACTG GCTGAAAGAC ATGGGACTTT
 TTGCTTCGA CGACTAAAAC GTTAAATGGG GGCTTACTTT GTGCATTAT GGAAGAAAAC TTGGAAGGCA TTAAGGCTA
 CATTTTGAGC CTTCATGAT TTCATTCAAT TATGCATGAA TTCATTGTG CAACATTTAT TTAGTACCCA CTATATGCCA
 GGCACGTGC CAAATG

SEQ ID NO:1314: (Length of Sequence = 391 Nucleotides)

CCGGTTTAGA CCTCAGTCGG CGCTGTGAGG GCACGTGCCG CCCACCTGCT CGGCTGGCTG AGCTAGGTCA GTGGAGAGAA
 GCTGGGGCCA CTCACACAGC ACAGCAGGCC ACAGTCTACA GAGTACGCCA GGTAGAGCGG TTAGAGTGGC AGCCGCTGGA
 GAAAGGGTTA TAGAAACACA TCCCTGACTC TTTGGTTATG TCCCACGTCC TCTGTGCTC CTTCCTCTC CCTACTCTCC
 TTCTTTCTG CCTCTGTG TCCCTGGAA GTCCCTGTG TCAGTGCATT TNAGTGCATT GACGTGTCT AAACACTGAT
 CTNCACACAC CTTCCTTAT CTCCACCTG ATAGGCAGGC CCCAGANCCC CTTTTTCTT AGCTTTGTTC T

SEQ ID NO:1315: (Length of Sequence = 374 Nucleotides)

GAATTCCTTG GAACACTGGT GTTTACAGAG AGAGATACTT TGTGGAATGG AGCTTACATG ATGAATGAAA AAGAGACCGT
 TAAAAAGTAC TAGCCGTGTG TTACAAATAA CTACCAGGTA AACAAAGAAA TCACTTTCTT TCCCCTTCT AAGGATAAGG
 GAGAATAAAA TAATCACCAA GAGGCATGGA GTTTGAAAAG TATATAACAG ATTTCTTTAT TATTATTTAC AATCAAGTTC
 TGTGGENCAA CATAATGAAA TAAATAAAG ATGTGCCCTG GCCTGTGAAT TTCAACTCTC CTGACTTAA GTTCTCTGAA
 GGGCAAATTG GAAAGCGTG ATCAGGCAGG GAAGAGAGGG CAGGTGGAGG CCAG

SEQ ID NO:1316: (Length of Sequence = 353 Nucleotides)

CTTGTTTACA GGTTTTGAAA GGTITGINAG ATTAGTATTT ACTTTTAATT TTTTGAGTAA TAGAATGCGT TTAGGTTCTA
 AATTACTATG GAAATGGCAT AGTGAGGATT CTNCACAGAT ATTAGAGACC TTCAACAACA TAGTGAAAAT AGATTGTGCC
 TTTCTGTAA ATAGCTGAAC TATGAAAATT TGANCTGTCA CTGGAGGGG CATTTGCNCT GAAGTTTGCC AAAGTAAAAA
 TAACTTINCT CTTTAGTAAG AAAAAGCTAT ATTTINCAAT ACTGCCTGCC ACAGCAAACA AACAAAGTCT TGTGTGTGT
 TTAATATTGG CAAAGGAAAA ATTCTCTATA TAA

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SEQ ID NO:1317: (Length of Sequence = 316 Nucleotides)

GAATTCGGAT TATAAGCATC AATATGCATA AAATGCTTAG AGATGGACCT GATATATAGC AAACACTCAG TAAATGTTAA
 CTATTATTAT NACAGCACAG CAATTTATTT AAGATTACTG AGTGTTCAAA TGAAAAAAAA GACATATTAA CTTATATAGT
 GCCATTCTG ACATAAGAAA TACACAAATA GAGGTAGTTT CTGAAACAAA GATCAAAAAA ATCTATTGTA TGGTGTCTTG
 TATCAATGTG GCTAAAATTT TCGAGCTAAG TTTTATNAAA GACAGATCAT ATTCANGTA GGTGATTTTT GTATTG

SEQ ID NO:1318: (Length of Sequence = 300 Nucleotides)

GTGGGACTAC AGGTGCACGC TATCATACCC AACTAATTTT TGTATTTTTA GTAGACATGT GTTCCCCAT CTGGCAGGG
 CTGGTCTGAA ACTCCTGACC TGAGGTGATC CACCTGCCTT GGCCTCGCAA AGTGTGCGGA TTACAGGTGT GAGCCAACAA
 GCCTGGCCCA TTTATTTACT TTTTAATTTT CATTTTCTT CATCATGTAG AATGGACAAT TTCAGGAAAC TGATAGAAAA
 TACTGTCTAA CATCAATTT TCAAAAAAGT TTCTCTGTAA CAGATAAGGC AGTCAATTTT

SEQ ID NO:1319: (Length of Sequence = 306 Nucleotides)

CAATAAGCTT TAAAAAGTTA GTGCCACATG ACCAGCATCG ACTGGCCTCA GACATCTGCA AGCACTCACC CAGGCCACAG
 GGTCAGGTAG AGGGCTCCTG GGCCCACTGT AGCCCTGCT GGGTCAGTGT AGCTGGAAGG CTACGGGNC TTAGTGGGGA
 GCCACAGCCT TTCCCACTAG GGGGCTCTC ACTCTGACAT CTCCTGTGG TGTTCGGACC AAGGGTGGG AGGGAGACAC
 GCTGGCCCTA AAGGGAGGTG GTAAATNAGT AAGATCTCCA GGGCCAGNCC ACAGGGCTCC GTCCAT

SEQ ID NO:1320: (Length of Sequence = 373 Nucleotides)

GGTCTTGATC TCCTGACCTC GTGATCCACC CGCCTGGGCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGTGCCTG
 GCCGAGATAA TTAATTTTNA GTGACGATTT AGCAACCTGA AAACCTTGGG TCTTTGGGAT ATGACCTCAG TATCAACACA
 GAATATTTGA ATGCTGGTTA ATATATTINT TTTAACTGT GATAGAATTG AAATCTTGTA GCCACATTTT GAAAGTTTAT
 TCTTCATTAA CTAGTCTTTT CTCACCTGAT TTTCTACAAG AGAGAATTTT CAAAAGGTT AGTTGTGTT ACATTAAGAA
 CTGGGGGTTT GNTTGACATG AAATGTTTCT ACACCAGCAG GTCTCAGATG AAT

SEQ ID NO:1321: (Length of Sequence = 366 Nucleotides)

GTITGGCTAA TCATCCTATG ATTTTCCTAT AGCTTGAAAA CTTTITATAT CTTAAATTTT TTNATAATTT TGAAGTATTA
 TTGTTTGGC TTTGTATATC CAGTGTATTT TCAATTAAAT TCCCCTAACT AAAGTAATTC AAAAGGAATA AAAGTGTAAT
 GTGGGCTGGG CGTGGCGGCT CATGCCTGTA ATCCAGCAC TTTGGGAGGC CCAGGCGGGC AGATCACCTG AGGGCAGGAG
 TTGGAGACCA GCCTGGCCAA CATGGTGAAA CCCTGTCTCT ACTAAAANTA CAAAATTAGC CGGGTGTGGT GGCACATGCC
 TATAATCCCA GCTATTTGGG AGGCTGAGTC AGGGAGAATC TCTTGA

SEQ ID NO:1322: (Length of Sequence = 362 Nucleotides)

AGGGAGGGTA AAACAAATCC CCTCCAATG CTTTGTAGAA GGGGATTAGA ATCACTGTGG AATTCGGTAT TGGCTAATAA
 AGTATAACG CTAAAGATCA ATGCCTGAGT GCACAGTTGT CTTCAAGCC ATTGTACTTC TGCTTTCCAA GANTAGANGA
 CTACTTTTTA ACCAAGANTT AAAAATAANC TCATAATTTA AACACCTCTT TCATGCCAAA TGAAATCTT AGTGTGTAAT
 AATCAGGCTC ACCTGAATAC AAAGTGTGCC TGAAAATGCT GACAATCACA AAAAAGGTTT TAGAAGCTTT TTCAAAAAAC
 AAGTTCAGAT GGTTCCTACT GAGTTACTAT TTGAGGTAA AG

SEQ ID NO:1323: (Length of Sequence = 244 Nucleotides)

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CGACCTCAGT GTAAATCACA AAACGGGAAG AGCTGATATT GGCAAAATAA TTACATGGCT CATTTCCTTG CATGTCAAAA
TAGGATTTGA TTGGTTGTAA AAGATGACAA ATACCTTTNC GGTTTCAATG TTCTTAAGTG GGAAGTCACT TATTACAGAC
CTNATTGGGA GTAAACAAAG CTGTTAGACC TTTCATTATC AGTCCNNTTA ATCCCTTCAA TAATCCCCCT AAATCAGTGA
GGCG

SEQ ID NO:1324: (Length of Sequence = 279 Nucleotides)

GATCCATGCC ACAGTGACCT CTGTNACCT GCACAGCACA GAGGGGAAAG CCCTGTACCA GGTGGCGTAT GAGAATGAGG
TAGGCAACAG CTCTGACTTC TATGACATCG TGGTCATCGC CACCCCCCTG CACCTGGACA ACAGCAGCAG CAACTTAACC
TTTGCAGGCT TCCACCCGCC CATTGATGAC GTGCAGGGCT CTTTCCAGCC CACCGTCGTC TCCTTGGTCC ACGGNTACCT
CAANTCGTCC TAATTCGGTT TCCCAGACCC TAAGCTTTT

SEQ ID NO:1325: (Length of Sequence = 338 Nucleotides)

TCAGTTATTT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT
TTTTATAATC AGAGAAAATG CTATTTTTAA ACCCTACCAC TGCTGACCAA ACAACAATCA CAACAGCATA AACTAAATA
CTGTTCAACA AATCTATTTT AGTGTAGTAA TTAAATAATT CCTAAATTA TAGACATCCC TAATATTCTT TCCNTTAGTG
GTTCCTCAGA GTGCAATCTG TGGAGCAACT ACCTTGAAGA AATTGGGGG AATGAGACCN TGGGAACCCCT AAATGTTTAG
NATGGTGCTC TNGGGGAC

SEQ ID NO:1326: (Length of Sequence = 393 Nucleotides)

AACTTTGGAG GGGACACCAT CACTCAAACC ATAGCTGTAA ATCTATTCTT TGAGTCCAGA TCACAAATTA CCAAATGAAC
ACGTTCTCCA TTTTATGATC TTTTATACCT GTAACCTCT GTCTACCTAA GATGAATATT TATTCAATGA ATGAATCATT
TAATTTTGGT GCCCCAAAAT TCTCAGTGAA ACAATTTCTG GATACCTCTC CATCACTAAG ATAATCACTA TAGCAGTGTC
ATATTCTTCA ACTTAGNACA AATCTAAAGG CTCCATTTAT CCCTACTAGA AGTGTCTGTG TGTCTTTTTC ACTCTCAAAA
TATCTCCAT GCGCNAACCA AACACTAANG GGNACCACCA TATCTTGCTC AATGGAGGCN AAATCACTTT TTA

SEQ ID NO:1327: (Length of Sequence = 381 Nucleotides)

CTTTGGAGAA TTAATTCAGC AGTTGGTAAA ATCATTCTAT AATAATGGGT ACCATTCTGC TCTGTCCAC ATTTTATGA
AGTCTCTTTA AATTTAAAAA GGCAATGTGC TTTGTGGTTC TTGAGCAACT TAAATACGTT GCTCTGAATA GTTATTGTGA
TGAGGTAATT TGTAACAACT TTTAGGATCA ATGCTAATTT NCTTAAATGT TTCTGTAGTT TCCCCTTTAT TATAAAGTAT
ATTAGGCTGG ACTCTTGGCT GTAAGTGGCA GAAACTCAA CTCAGATTAG TTAAGAAACA AAAGGTGTT GGTGACAGTG
GTGGCTTTCA GACTATTGCT GCAGGCCAC CTGCCATCCT CTTACACCCT CAACATACCC T

SEQ ID NO:1328: (Length of Sequence = 289 Nucleotides)

AGAAGAAAAT TCTTAAGCAG AGTACTTAAG TACAAAATTG AGTGACTGAA AGATGCTTAA TCTAGGGAAA TTAAATGAGA
AAAATACATG GTGTGTGTGT TGGAGGGGGA GCTGGAATTG GAATGGGCTG GAGTGATGAA AAAAAGCCAA CAGATATAGT
CTTCTGTTTT GTAATATAGG CTCAATACTA AATTATGTAG GACTAGATAA TCTAGGTCCT AATGTCTCCT TTTTGTGGC
AACCTGGGG CCAATTACAC TAGAGGGTTG GTAGAAAAA GAGGAATAT

SEQ ID NO:1329: (Length of Sequence = 364 Nucleotides)

TTGTATATTT GGGATTGTCA ATAATCTAGG CCACGTGGAA GATAACAGGC TATTTTGGAT ATTTNCTAAT TGCAATGGTT
ATATTTCTGT GTAAATGCCT ATACAAATGT TTGCTTGGTG ACATATGGAA AACTTAAGGN CTTTTATGAA AAGGCGACAA
TGGGGACCTC CAAAGCGCCA AAGTTTCTGC TAGGCATAGT GTTATTTTTA GATTACATTA AAATGGCTAT TTAGACCCAT

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CTAGCTGAGA CTATTCACAA ACAAACTTTT TATCANATTG TNATCATAAT CAACTTTCTA CAGGCTAATG ACTTTATAGN
TTTACTINCTA GTGTATATCT ACTAGCACAA TTGGACCCAG TTCC

SEQ ID NO:1330: (Length of Sequence = 221 Nucleotides)

CAATATTTAA ACAAATGCA AACTGAACG TTACCTCAAA ATGAAACAGT GTGTGTACTG GCTGTAGAA GTTGATGGCG
GTCTACTGTT TGATATTCAC TGCCATCTTC CTCTGCCCCA CTCTACCTCA ACTCGGGACC GCCTCACCTA ATGGTGGGCT
TTGCCGCTTT ATGCCNTGTA GAGNAGACAC TGGGTAACCA CAGCAAATCA ACACGGGNTC C

SEQ ID NO:1331: (Length of Sequence = 279 Nucleotides)

AATAGAGATA ATGGTCAACT CTGAGAAGA ACCAAATGCT GGTGCCATCT TGAAGTGCT ACATCACCTC CTCCTCTTAC
TTCTTGAAC AGCAATATTT CTGGATTCT TCTGCAAGCC CCAGGCAGTG CAGGATGCGT TTTTTCAG CAGCCAGTTC
CTCTCAGAG AACTGGCCCA AGAGTTTCTG GACAAATATA TTTTGATCTT TCAGAAATAT GTTCINATTC ACTCCTACAT
TTGGCACATT NTCCAAGGGC CCAGACTTGA AATTGGAGG

SEQ ID NO:1332: (Length of Sequence = 290 Nucleotides)

GGACGAGGAG ATGTCTTTGG TGGACTTGGG AAAGAGGTG CTAGAAGCAG CAAGAAAAGG CCAAGATGAT GAAGTGAGAA
CGTGTATGGC AAATGGCGCC CCATTCACCA CAGACTGGCT TGAACATCA CCCCTCCACC TTGCAGCTCA ATATGGTCAT
TATTCACAG CAGAAGTACT CCTTCAGCA GGTGTAGCA GGGATGCCCG GACTAAAGTA GACAGGACCC CCTTGCACAT
GGCTGCAGCC GATGGACATG CGCACATCGT GGAACCTGCT TTTTCGGAAT

SEQ ID NO:1333: (Length of Sequence = 201 Nucleotides)

CGCCAGCTA ATTTTGTAT TTNAGTAGA GACGGGGTTT CATCATTTNA GTGAGGCTGG TCTCAGACTG CTGACCTCAT
GATCCACAG CCTTGGCCTC CCAAAGTACT GGGATTACAG GCATGAACCA CCACGCCCAT CTGATTTCCC GTTTTCTGCA
GGGTAAAGNC TCAGGGCCCG CCCATTGNIT TCAGGANITT T

SEQ ID NO:1334: (Length of Sequence = 267 Nucleotides)

NNATAACTTT TTGTGAAAT TTAGAAAATG TGGATCTTTT ATACTTGCTT TCCCTTTTCT TCTGCCATCT TTATCTCTG
CTGAAGGAGA CAAACAATAT TTTAGGTGAC ATCTATCACT TTATGTAGGA CCTGCAACA CTCATGTTGT CTTGGGACAG
ACAAATGGAG AATGTAAATC TGTTACTG TGACAGGATA TAATTNTGGA TTGCATAGGN TINCAACAA GTGTCTGTGT
GATGANTAAA TGGTAAAATA TATTTAT

SEQ ID NO:1335: (Length of Sequence = 279 Nucleotides)

GNICTTGTIT AGAATGCAGA TTCTAATTAA AAATGTGTAG GACAGGGCCT GAGACTCGGT ATTTCTAACA AGTTCCCAAG
TGATACTAAT GCTACTGCTT CACAGATCAC ACTTTAAATA GTAAGGTTCT TGAGAGAGAT TAGTCTCAAG AGAAAAGAGA
CAAAAATCTC CAGAGCAGGA AGACCAAGAA AAAAAAATGG AAAGTAGCCA GTCGATTATC AACTAGATGG CCTTAGTGAG
ATTCTGCACA ATATTTTCATC ATACAAACT GNTTCCCA

SEQ ID NO:1336: (Length of Sequence = 398 Nucleotides)

TTTTTTAAGC ACTCTGTGT GGAATGTTCA AAGATGTTCC TAAACAACA TTGCTGTCAC CAAGCCTCCC ATGANTTAGG
CTGGCTCCTC CCAATGGAT ATCTGCTTCT GCATAGTTGG TGAAGAGGAA GCATCCTCAG TCAAAGCTAC CAGCTGAGGA
ACCCTTAGGA AACCCGCTG GTACCTGGCC TGINTTTTGT AAGTATACAT CAGGCCAGGG GGCTGCTTGC CAAGCAACAT
CATTGACTGC ATACTGTTTA GTGCATGCAT TACCAGGCT CAAACATCCA AGTGATGCTA CCTGAATAAG TCGAGGAATT

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TTTGATAATA AACATAAGCC AAATCCAAAA AAATGTTCTG GGTTTTTCCTA TCATTTCAC TCATTAGINC CAGGAAAA

SEQ ID NO:1337: (Length of Sequence = 272 Nucleotides)

CTTTCCTCAG TATCACAGGT ACCTGTTTIN CTGGAATTTA TTTAAATGT CACCTGTAG TGTTCCTCT CTAGGGCTGT
TTGTTTCATT TCCCTCTGAA TGAATGCTGC CACACGGTCA TATGTGAGCC AAGTTTACAA GAATGGAGTT GCTGCTGAAG
AGATCTCTCA TTCATCTCCC CCAGTGCCTG TCCTTCACAA TCATAACGTT ACCCTTGCTT GACAAATATA CTGTATGGCA
AGTCATAAAG GTCTTNGAAC AGGACTTGAC CC

SEQ ID NO:1338: (Length of Sequence = 212 Nucleotides)

TAGTCCCTT TATATAATAT AATCAAGTTC CTCCATCTGG GCATTGAGTT AAATTCTACA ACATTGCCAA AATCTGATTT
GACTCTACAG AATATGTATA GTTTATTTAA CCAGATAGTA ATTTAAATTT TTACAACATG CGTATTTTCAT GTAATATTAA
TAACAGTAAT TTAAATTAAT ATTCAATACA TACCGTTTGA ATTTTATATA GG

SEQ ID NO:1339: (Length of Sequence = 280 Nucleotides)

TTTTTAGGAA TAACAAATGT TTATTCAGAA ATGGATAAGT AATACATAAT CACTCTTCAT CTCCTAATGC CCCTTCCTCT
CCTTCTGCAC AGGAGACACA GATGGGTAAC ATAGAGGCAT GGGAGTGGA GGAGGACACA GGAAGTACCC ACCACCTTCT
CCTCCCGGTC TCCCAAGATG ACTGCTTATA GAGTGGNGGA GGCAACAGG TCCCTCAAT GTACCAGNTG GTCACCTATA
GCACCAGCTC CAGATGGCCA CGTGGCTGCA GCTGTACTCA

SEQ ID NO:1340: (Length of Sequence = 324 Nucleotides)

CTGTTCCACC TCAGATCATC AGGCATTAGA TTCTCATAAG GAGTGTGCAA CCTAGATCCC TCCCATGTGC TGTTTCATAGC
AGGATTTGCA CTCCTATAAG AATCTAATGC CACTGCAGAT CTGGCAGGAG GCGGAGCTGA TGGTGGGAAG GTGGTATTTC
TCGC CTC GCCTACTGCT CACTCTCTGC TGTGGGGTCC AGTTCACC ACAGACCACT GGTCTNTGAC TCAGGGACCA
CTAC CTC AACANGGNTG AGGAAAACAA CTGGGTTTCAT CACACAATTA TTTTAAAGTT CAGGTTTNC AAATAACTTA
TCC

SEQ ID NO:1341: (Length of Sequence = 376 Nucleotides)

CTAATCAAGG GTACAAGATG TCTAANTCAA AGGCCAGCT CTGCCTACAA GTCAAATATC TAGGCCTAAT CTGGCCAGA
GGAACCAGGG CCTCAGCAA GGAATGANTA CAGCCTATAC TGGCTTATCC TCGCCCTAAG ACATTAAAC AGTTGTGGGG
GTTCCTTGA ATCACTGGCT TTTGCCGACT ATGNTCCCC AGATACAGCG AGATACACTC TAAGGAGACC CAGAGGGCAA
ATACTCATCT AGTAGAATGG AGACCCAGAG GGCAATACT CATCTAGTAG AATGGGGACC AGAGGCAGAA ACAGCCTTTC
AAAACCTTTA AAGCAGGCCC TTCTTNCAAG CTCCAGCCTT TAAGCCTTNC CACAGG

SEQ ID NO:1342: (Length of Sequence = 335 Nucleotides)

ACCTTCCCC ACTCCCTGGT CCCCAGGAGC AGCTCCTTCT CCCCAGNTNA CTCACAGTGC AGGGAAAGGA GGCAGGGAAA
AGACCAGGAT TCTGTGAGTT CTGAGGTGTC CACACACAAA GAAGCTGTGG TTTCTCTGCC TCGCCCACTG ATGAGACTAA
AACTGGCTTC CCCTTGAGA CGGCAGATTT CAGGCTGATC CCTGCTAAG CCTCTCATC CCCACGCTGG TCCTGGTATT
GATACAAGAC CCAGCTGGTG ACAAAGCCTC CAATCCTGGG GGTCCACGGA GCCTGGGGCT GANATTTCCA GGAACATATC
GCCAGTGGGC GCCCA

SEQ ID NO:1343: (Length of Sequence = 379 Nucleotides)

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GAACCCAGGA GCGGGAGGTT GTAGTGAGCC AAGATCGTGC CATTGCACTC CAGCCTCGGC AACAGAGCG AAACCTCCATC
 TTAAGAAAAA AAGAAGGGTG TGATAGTTAA ATTTATGCAT CAACTTGGCT AGGCAATGGT GTCCAGATAG TTGGTCAAAC
 ATTATTCTAG ATGTTTCTGT GGAGGTTATT TTTTAGATGA GATTAGCCTT GTAAACTGGT GAAAATTGGG TGAAGGAGAT
 TACCCCTGCAT AGTGTGGTGG GTCTCATTTA ATCAGCTGGA GGCCTCAATA GGGAAAAAGA CTCACCTTNC CCTGGAGCAA
 GAAGGAAATT CTTGCCCAGC AGAACTTCTT NGGGCAGCAG AATGCAACCA TAAACTCTT

SEQ ID NO:1344: (Length of Sequence = 400 Nucleotides)

GACGGATGGG ATCGGGGCTG TGCTCTGCAG GTCTCCCCA GAGATGTTGT CATACTGCGA GGGATGCCGC TCGTAGGACA
 CCCTGCAGCC AGAGCGCTCC GCCGTCTGNN AGGCTGCGCT CCTGCGCTTC TTCTGGGGA GAGCAGGTGG CGTATCTNIN
 TGCTGCCCTG GGGCCAGAGG TCCGNTGGC TGGGGATGCC CGCCAAGAGG CAGCTGGAAA GGAGGGCCAA GAAATGGAGA
 CCCAGACTCC CCCAAAGACT CTGGCAACGG GCTAAGGTTT CAGGGCCGTC TGCTGAGGTA TCTGGTCTGC GTTAGAGAGG
 TCTTNTGGA GGAATTCATA GTCCGGATCA TAGCAGATCT TGTCCCTTT CTATACCATC TGTCTATTT GGAGATNGCT

SEQ ID NO:1345: (Length of Sequence = 347 Nucleotides)

CCTCTTCCCC CAAGGAGCTT GCAATTTTAG GAACTAATCC AGTTTGAGGG CTGAATTTAA GTTAAAATCA ATTACTGCCC
 TATGTACTCC TTTTAAAACA ACAATTAGTC AAGACCTTT CAGTGCTAAA TAACTGATT TGTATTATC ATACATTCAA
 GTTTTATAAA TGTGTTTTTC CTCATTAC TGAAATATCA GAATCCAGCT CAAAACAGA ATCAAAGAGG AGACTTTTAA
 GCTTATTCAA TAAAACTAT GGTACGGTAA TATTCAAAT AGTGGAATC ATTATATTAT CTAAAATTCT CAGGAACTG
 CTTTAACCAT GAATTAATA ATTTACC

SEQ ID NO:1346: (Length of Sequence = 287 Nucleotides)

CAAGTCAATA CCCATAATTA AGTCAAGTTC CCAGCCTTAA TTATATTINT NICTGCTCG TTCACTCTCT CTCTCCTTCC
 CTCCTTCCCT CTCGCCCCA CCCCGTGTA CATTATATAC CAATTCATTG GAGATATATA TATGINTGIN TNGNGINTG
 TGTGTGNNC TGTGTGTGTG TGTGTGTTAA AGAAGCAGGA TGCTTACAC AGATGTTTCA TATATTGAGG NATTACAGAG
 TAATTACAGG GAAAGGTATT AACTGTCTCT TCAACACCT AGGCAGT

SEQ ID NO:1347: (Length of Sequence = 295 Nucleotides)

ATTAAACAAC TTTTITAAAC TTTTGTGCA CAGGACAGAA AACTGCCTGT ACATGCTATG TCCACTTTTG GAACACAGAT
 TTTTACAAT TATGAATGCA CAAATCTTA CATATCATGC AACTCTATGC CAAGAACCCA ACTTCTTCC ATGCAACAGA
 TATGAAGATC TAAATGGAAA CCTAGCTAAG TCTTAAACAC TTTTCCAGTA GCAAGTATAA TATATGTTGT TGAGGGAAAA
 CCAGTCTTAA CAATTNCTTG TACACAATAT TCATGTGCCA AATACAATGN CAGGN

SEQ ID NO:1348: (Length of Sequence = 332 Nucleotides)

AGTCCCTGCT ATGTGGATAT TTGGTAGCAA TGACTGATGT GGAAACTACA TATGCAGATT TTATGCTTC AGGAAGAACA
 GGTAGAAGAA ATGCAATACA TGATATCCTG GTTCTCTCTG CAAGTGGCAA CAGCAATGAA TTAGCCTTGA AATTAGCAGG
 TCTTGATATC AACAGACAG AAGGTGAAGA AGATGCACAA CGAANTTCTA CAGAACAAAG TGGNGGAAGC CCAGGAGAA
 GCAGCAAAT CTGAAAGCTT AACACCCAC TTTGACCCTC GGCCACACCT GAAATGTCT CAAATCTCCA GGGNGTATCT
 GGGAAATGCAT TT

SEQ ID NO:1349: (Length of Sequence = 296 Nucleotides)

CCCCAAAAA CAATGACACA AAATTCATTT GGTAAATTCA TGTAAGGAA AAAACAGCAA CACCACCACA CAAACAGGAA
 AGTGGGAGTA TGATTAGGAG GGGTGAGATG AAAACTATTT TACAGTAACA TTTCCACCAA AAGACTGTCC TAAGAACACG

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CTGTCAATAC AGTTCACAGG GAAAAAGCAA ATGTGGTATT TTTTGTATT TTTTAAAAGC TCCCTGGGTC CCAGGTGTTT
TGCAGTTTTT AAGNCITTAT CTGCTAAAGG AATGCCCTTT TAGGGTCACA GCAGGT

SEQ ID NO:1350: (Length of Sequence = 317 Nucleotides)

CTGTGCCCCA GGCTAGAATG CAATGNCGTG ATCTTGGCTC TCACTGCAAC CTCCACCTCC CAGGTTCAAG TGATTCTCCT
GCCTCANTCT CCCTAGTAGC TGGGATTACA GGTGTTTACC ACCACGCCAG GCTAATTTTT GTATTTTTAG TAGAGAAGGG
GTTTCACCAT GTTGGCCAAC CTCGAACTCC CAACCTCAGG TGATCCACCT GCCTCAGCCT CCCAAAGTGC TGGGATTACA
GGCATGAGCC ACTGTGCGTG GGCCAATAAA CTATATTTTN TCAAGCCAAA GTAGGACAAG CACAGTTTTT AAAAGGG

SEQ ID NO:1351: (Length of Sequence = 349 Nucleotides)

CGGATGGGTG GGATGAGACT TCAGCTTTAT TGGAAATGTT TTATTTCTTT ATCTAAAAAA ATACTAGAAA GAAATACAAC
AAAATGTTAA CAGTGTGTTA TGTCGGCTC TGTAATATA GATATTGTGT TACTTTAGTC TTTTTTTTAA TCTCAACTAA
ATTAAAAAAG GAATTTTAGT CTTTTTTTAT CTCAACTAAA TTAAAAAGG AATTTTAAAA CCCTAGTGTT ACATGCAAGT
GAGTCCAATA ATGGCAAAAT AATAATGAGG NTACATAGGA AGGGTGACCT AAATTTTAAT GGGTGAATAC TGGGTCCCCG
GTACAAGTTT GANAAATTTT GAATTTCCG

SEQ ID NO:1352: (Length of Sequence = 304 Nucleotides)

TTTTTACT ATTTAAAAGA ATCCTTAAAT GATGGTATT CTCTAAAGCA TGCGGGGCTT AAAACCTAGA TGATGGATTG
ATAGGTGCAG CAAACCACCG TGGCACATAT ATACCTATGT AACAAACCTG CACATTCAGC ACATGTATCC CAAGACTTAA
AGTAAAAGTA AAAATTAAAA AAGATGGGTA TTCTATATT ATCTTTCATG TTACATTTTT CTTGTGGGG TTTCTAAATA
AACTTGTA CATGAATGTT TTATTCAT TCTGTATTT AAAAGAAGC TGAGTAACAA AAGG

SEQ ID NO:1353: (Length of Sequence = 307 Nucleotides)

CTTAGTCTGA CATTAGGTTA TGAGAAGTAC AAAAGATCCA CAAGTACAAA AAAATCTGTA TAGCTTTGCG GTAGTTGAAA
AAAATGCAAG AGAACAAAAA AATTTTTTGA GTAATATTCA TCTCTGAGA TCTGAGTGAC AGTCCGCTTG AAACACCGCT
GTAAAAGTGG TAAAAAATGA TTTCAATGIG ATTATGTTAA AATTTTTGAT GTCTCTNTTA CTTGTTTTAG GGAATCTGG
TCTTCTGNC ATTTATACCT GGATANGINC CTTTCCCTGT AATTTTTTNC GAAAGGCTCC AATTTC

SEQ ID NO:1354: (Length of Sequence = 407 Nucleotides)

GIGAAGTTAA GCAGCAAGGG CTGAGAACCG CTGCTCCAGA GAGGCCAGGA GGTCTGGTCA GAGGCTGGGG CCCCAGCCCC
CAGGCACCTC TCTGTGTCAG TTTCCTGGA GAAGTCATGA GTTTGAAGAG TAGGCAGAGG CCAGGTGTCA TCACTGAGTC
ACTCATCAAT GGCCAATGAG AGTNCAAAGG GTAGTCTGTA GCACAGGATG TNTAGCAAGA CTCCTGGGTT CAGCTCCAG
TCCCACCANT GCCAAGTGGG GGATCCTTAG CAAGGTACTT ACCTTTTTNN TGCCCTGTGT TCTACGGCTG CAAAATGGGC
ACAATAATGT CAGATTCATG AGGGATAATG AGGACTAAAA TTAGGNTAAT TNCCTATAAG CTGCTTCTAA ACGTATTTC
TTATAAA

SEQ ID NO:1355: (Length of Sequence = 355 Nucleotides)

ATTACTATTT GCCTCTATAG GAGGTTTCAT TAGGCATCTN CTTCATTATG AGTGCAATAT AATCAAACAC TTATCAGTAC
AAGGCAGAGA GACCGGGACT AGCTGCCTAC ACATCCTCAA TGAGCTTTAG GAAATGTGAA GGAAACATGG ACTGAAAATC
TTCTGGTGGC AGGTACTCTC ATGTGTTGTC CTATCTGATG CTCTCAACAA CCTCTAGGGG TAGATATTGT GACCTCATC

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TTGCAGAAGC CTTGGCTCAA GTATATGCTC AGAATCACAG AGCTGGAAGA TAAACTTGGG TCTCTCTAGT GCCAGAGNCC
ATGNCCTCTG ATCTCTCAAG GGCAGAGGTA TTACC

SEQ ID NO:1356: (Length of Sequence = 406 Nucleotides)

TTTTTTTITAG TTATTTTCACT CTCTCTGTGA AATTTATCTG ATAGGATTCT GCAGAGAACA AAATTCAACA GGGCCCTGTG
GAGCAAGGAG CCCCTTTTCC CTATCTCCTT CCTCTAAGAG CTACACCCAG ACCAGCTGGT TATCAGCGGA GGCCCGCTG
CTCCTCATGA GAACGCTGGT GGAAGACGAA GGTGATGGCA GTGGAGGCAG CATCCAGGC AGCCTGGAGT ACCTCATCCC
GGAGCCCCCA CTTATCAGTG CAGTGGTTCC ACCCTGCCAG GGTCTNAAGT GCAGTCAGAA CCATCAGGGG GINGCCGGAT
CTGACGGCTG TTNACACAAC GTGGGCAGTG CAAACCTAGG GACAGAAGGC ACANCINAAG TCACINCAGA TCCCATCTTC
CTACTG

SEQ ID NO:1357: (Length of Sequence = 231 Nucleotides)

TTTCACAAAG AATTTATGAT TGCTTCACCA GGTCACTAGT GAGCTAAAGT CAAGGAATGA CTACAATCTT GTAGCATTTT
AAAGTGATTA GAATTTGAGA AACTTTTACT ACATTATGTG TTAATATCAT AAGAACACTC CTTTGGGGC ATTGAATAA
TAAAAGGNC TACATTCTTT GCACCANGTG NTCATTTTCA CCCACATTCC AGTATTTTNC TCTAACTTGG G

SEQ ID NO:1358: (Length of Sequence = 302 Nucleotides)

CACAACTAAT TTGTAAGCCC CTTGAGCGCA GGAACCTGGT TTTTAAAGAA TGATGTATTC TTCACAGTGC TTTCCCTTTC
TGTTACCCAG GGAGCACATG GCAATATAAG GGCTCCTGGG ATTGANTCTT AAGTACAGAG AAAACCTAAG AATNCTTTTA
GATAGACAGA TAAGAGACCA CNAGAGAAGA GCAGATTCTA AGGTATNTGT GAGAAACGTT ATGTAATGAA AAGATAATTG
ATGACACACA CTTCCAGAGN GTGCTGGCGA GATTTGATTC AAAAGCACAC GGCTAGGGCA CT

SEQ ID NO:1359: (Length of Sequence = 356 Nucleotides)

TAATGATGAG CCTCTGGGTG CAGGGAGAGG ATAGGACTTG ATGCTTTCCA GGGGAAATAT TTAATAATTC AGTACTAAGT
TAAGTCTGTA TCATTTTACT TTTTITATAG TTTCTTATTT TATGTGTAT GAGATGAAA GCTTGCACAT AAAAGATGAT
AAGAAATTAG AATTCATCGT TTCTGTGTGA CCAAGAAGAA CCTTAGTGAT CTCTAAAAGA ATTGTTGTGA AAATATGGAT
TCINCTTTCC TTCTAGTACT CCCCTAGCAT GACANTGAGC GTGTGATCCA TTACCAAGTC TCCTCATGAA AACCACAGTG
AGTCAGCCCT TCACAGAACT ACTACGGGAG GAAATT

SEQ ID NO:1360: (Length of Sequence = 366 Nucleotides)

AAAATTTAAT TCAACTGACC CATCCACCG GGAAATGCCA CTAGGAAGGT GTAGCCTGCA GTTTTACCTA ATAAGCACAA
CTGGAGGGGA ATAGAAACAC AGAATGTGA GGAATCGCA AGGCATGCTG CTCAGAGCAT GCCTAGCCCT GCACTGAAAG
CTATGAGATA CTGGTTCTGA GGCAATGGCTG TGCTTGCTGG TGGGAGCGGG CATCTCCCT TGGCCTCCCT GGGACACCTC
CTGTGCTCCC TGCACTGCAC TCCAGTGCC TGGGGTGTCT ACACAACCTG CTGCAGCTTC ACTAAAGAAC AGGTGGCACT
NCAGCTTCTC CGGTCCTGC TGAGCACAGG GNCCGCCAN CCTTGA

SEQ ID NO:1361: (Length of Sequence = 347 Nucleotides)

CCTCTACTG TCTGTCTGT GGGACAGTTG CCTCCCCCTC ATCTCCAGTG ACTCAGCCTA CACAAGGGAG GACCAACAGG
NTCTAGTTT TCCAGTGAT GGAGTTCCAA GCTTTTTTTT TTGTTTGTG TTGTTTCGCA AAATAAAAC AATACACATT
CCAAGAGAA TGAATGCATC TMTGACACG TCTCTATTTT TCATTACAT ATGTACACAC GNCCCTTGAG TCGTGTCTGT
TGACACGGCC CNGTGTGGAC GGGTCAGGCC CGAGGCCCT CGGGAGCAGA CCTGTAGCTC TCTGGGGGAT CAGGGCTTCC
ATTAGGGAGA AAGTATTAGC AGTTTCT

SEQ ID NO:1362: (Length of Sequence = 358 Nucleotides)

CCATTTCATTC ATTTCATTCAA CAATATTCAT TCAACAAATG AAGCAAAGGA GCACACAGCC AAGTGATGGA GCAAAATCAC
AAATTTAAAG GTAATTCAGG CCAGGTGAGG TGGCTCATGC CTGTAATCCC AGCACTTTGG GAGGCCGAGG CAGGTGGACC
AGCTGAGGCC AGGAGTTTNA GACCAGCCTG GCCAACATGA TGCAACCCCG TMTNTACTGA AAATACAAA ACAAACAAAC
AACATAAAAA AATTAGCCAG GTATNGTTTG CAGGCGNCTG TAATTNCAGC TTAGTCAGGA GGCTTTGGCA NGGGCTTCAG
TTAGCCAAGA TCGGACCCCTT NCACTTTCAG CCTGGGTA

SEQ ID NO:1363: (Length of Sequence = 312 Nucleotides)

TATTTAAATA ACGTGAATT TCATAAATCA GCACATTAC TAGATAGGTA GGATACTTTT NATCCATTIG TGTGTTAAAA
AATTAGCGCA TGTTCCTCTT TATGCCCCCT TGTATTAGCA GAATAGTGT TCCGGATTCC CTGAATGNT CTGTATTGAG
TCTGTATAGA CCCCAGGA AAAGGAGGAA TTCGCCGTGC CCGAGAATAG CTCGTCAGG CAGTTTANGG NAGAAATCTC
TAAACGTTTT AAATCACATA CTGACCAACT TGTGTTGATA TTTGCTGGAA AAATTTTGAA AGNTCAAGAT AC

SEQ ID NO:1364: (Length of Sequence = 345 Nucleotides)

CTGACAGATT TACAGATGCT GACCTATTGA AAAATACCAC AGCCAGAATG GGCTAAACAG GTATATAGTT AATACAACCA
CCACCATCCT TTACTTTTAA CATAGCTCTT AGTAGGAATT TCATAAANT GGACATCACA GCTAAAATGC ATTATTAATT
CTCCTATCTG CTGACAATAA AAAAGCAGCA AACTCTTGA TTCTATTITA AATGCACTAG ATGGGAATAT CATGTTCTAG
GGGTGTTTGC CTTCAAACCA AACCCACAGC AACACACACA AGCAATTTG GTATCCACCA TTTTAAATTC ACAATCTGAG
NCTAAATGAA TGGCTATTTA TATTT

SEQ ID NO:1365: (Length of Sequence = 255 Nucleotides)

CTCCAGAAAG CCATTGATCT GGTGACGAAA GCCACAGAGG AGGACAAAGC CAAGANCTAC GAGGAGGCGC TCGGGCTGTA
CCAGCATGCG GTGGAGTACT TCCTCCAGC TATCAAGTAT GAGGCCACA GCGACAAGGC CAAGGAGAGC ATTCGAGCCA
AGTGGTGCA GTACCTAGAC CGGGCCGAGA AGCTGAAGGA TTATTTACGA AGCAAAGAGA AACACGGCAA GAAGCCAGTC
AAAGAGAACC AGAGT

SEQ ID NO:1366: (Length of Sequence = 322 Nucleotides)

AAAAAAAAA TTCAAAGAA ACAGAGTAAT TTCTCTCTT GCCTCAGCCC TAAGTCATCT CCCAGACAAA AAAGCAATCA
TCATTGTCAA ATTTAAAGG GAAAAGGAAA GACTTTTATT TGANTGAAAA GATTTTTTTC AGTGTGATAG AGAGGGAAGA
CTGAAATAAA CAGAAATTAC AACCTTCGCA CCTTGCACC TTCTCTCTT AGCAGTATGG CAAACTAAAT AACTTGCCT
GAAAACGGGT TAAAAGCTG TATACTTTTT TAAAAATAT ATTTNGNTTA TGTCAITGAT CTGCACAGTT TTGAATACAA
AA

SEQ ID NO:1367: (Length of Sequence = 349 Nucleotides)

GAAAACAAGG TCAACATCAC TCATCATTAG AGAAATGCAA ATCAAAACCA TAGTGAAATA CCATCTCACA CCAGTCAGAA
TGGCTGCTAC TAGAAATAAC ATGCTGGTGA GGCTGCAGAG AGAAAGGAAT GTTTATACAC TGTTAATGGG AGTNTAATTA
GTTCAACCAT TGTGGTAGAC AGTGTGAAAA TTCTCAAAG ACCTAGAGAC AGAAATACCA TTTGACTGAG CAATCTCATT
ACTGGGTATA TAGCCAAAGG AATATAAATT GTTCTACTGT AGAGAAAACA TGCATGCATG TTTGTTTGCA GCACTATTTC
ACAAGAGCAA ACACATGGGA TCAACTTAA

SEQ ID NO:1368: (Length of Sequence = 379 Nucleotides)

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CTGGGACAGA GACCTTTGCA TTGCTCCATG TGTGGGCTTC AGCTGGGACA GAGACCTTTG CATTGCTCCA TGTGTTGGGG
 CAGGTCCTCC AATTCATCT CCTCTGCCCT AATTTATAG CCATACCTGT GCTATTTATT ACTTTTAAAC CCTAATCCTT
 TTTCCGTAAT TGTGTTACAT TTGTCAGAGT GCCAGCATTT TACAATGTGT CTTTTATGTC TCACAGAGGT CATCATTAAG
 TTAGACCTTT GGCTTCAATG GTCTCCCGAG AGATGGTTTA TAAAATTGTC ATNCTTCTGG CACAGGTGGT GTGGCTTAGG
 GATTAGGACA CAGCCTGCCT GAGTTCACAC CTCATCTCTC CCACCTTAACA CTGATAATT

SEQ ID NO:1369: (Length of Sequence = 319 Nucleotides)

ATTTCTGGTC TAAGTTTAT TATTTCCITT CTCTGCTTG TTTTAGGCTG ATATTGCACT TCTTACTCCA GTTTTCTAAG
 GTGGAAGCTT CGACTATGA TTTCAAATCT TTTNCTTIN CTAATCTATG CATTCAATGT TATAAGTTTC TGTGAAGCAG
 TGATTTTATT GCATCCACA TTTTGATAGG TTATATTTCC ATTTAGTTAC AAATAATTTA AATTTCCCTT GAGATTTCTG
 CTTTGACTTA TGTGTTATTT GGAAGTGTAT TTTTATCTC CAAATATTTA GAGATTTGCA GCTGTCTTA TGTATATA

SEQ ID NO:1370: (Length of Sequence = 343 Nucleotides)

GGAAAAACATA AATNTTGACA AGTAGTTCAA GACTGTGTTGG ATAAACTTAG CTAGAGTGCA GGTCACTAAT ACCCATCTTT
 ATAAGGAAGC TGAAAAGGGA AGTATGAGGA CAGGGAGAAC AATGACTTTN TCTCTCAAGC TTGACTTAAA CCACCAGGAA
 AGTTCTTAAA GCCAAAGCCT TTCTCAGACT CTCACCAAAC CATAAGAGTC AGAAAAATGG TCGTTTTCAA AGGAGTAGAA
 AATTCTGTAC AAAGTAAACA ACAGCTGAAG CAGGAAAGGN ACATACATTT NNTCACTTAG TGGCAGCAG GCAAAACAGA
 ACATAGGGCC AGCTTGTTA TTT

SEQ ID NO:1371: (Length of Sequence = 295 Nucleotides)

ATTTCTNCT GGGCGCGAT GATCTGAGCA ATGCCCCCA CAACTTGGT TTTCACTACA ACATGTCGT CATCAGCTTT
 GCCAAAAGCT GCCTTCTGGG CTGCACGAC AAGATTGINT GAGGCTCTTT TCACAGCATT TCCTGCCGCC TGTAGCCGCC
 TCATGGCCTC TNAATCTGG TGGCCCTCA CCTTGCAAGC CACCAGCAGC TGAGCCGTGG AAGCGCGAC CTGCTTGGCA
 GATGAGATGA GCTTCTCCTC GCTGGCGTGT CCCTGAACGG AGGCATTGGC CGCCT

SEQ ID NO:1372: (Length of Sequence = 340 Nucleotides)

TTTGCTTTCA GATAATGTTT CIGTATACIT TATAAATGCT ATCTGTGGTA TCTCCTGTAT AATTNACAAT GTTTGCATGT
 AAAAAACAAA ACCCATAGAC CTTAAAAAAA AGAAAAAAG AAATATACAC TATACATAGG CACAGCTTAT GCCCAGAGCA
 TAGCAGGTGC ATAAACACT GTTGCTATAA ATGCAAGAAA AAGGTCATTT AACCACAATC ACATTTTTTT NCATAAGNGN
 GCTGAAATC TATACATAT ATACATCTAT GTTCAATGT GGAAATAATA TTCTTTTAAA TTTCAAGGCG TGTATACCC
 CTGCAGGCCT GCATAAATGG

SEQ ID NO:1373: (Length of Sequence = 315 Nucleotides)

AATCCTGGGG GTGATTTAGA ACTTAGAGGC ATTCTCAAAA TGGACCAAGC TAAATGGTAG CCTTTATTIN CTGTAATGAT
 TCACCATGGG AAAATAGTA ATTCTTAAA CTCTTACTT AATCTTATAT GTATTCCAAA TTINCTAAAA AGAAATTAAC
 CTAGAGGTTT TACAGAACTC CATTTTTTTT TTATTINCCA GAAAGGAAAA ATTTATCTGT NCTGINATTT TGTAAAAAT
 CCTATTCCAG CTAATACTAT GGAAAAAGGA AAAGAAGAAA GGAGGAAAGG AAGGGAGAGA GGAAAGGAAG GGACG

SEQ ID NO:1374: (Length of Sequence = 327 Nucleotides)

GAGCCAGTGG TGGCCCCAA CAGCCCAATC TGGTACTCAG TCAGCCTAT CAGCAGAGAG CAGATGGGAC AAATGCTGAC
 GCGGATCCTG GTGATAAGAG AAATTCAGGA GGCCATCGCA GTGGCCAATG CAAGCACTAT GCACTGAGAT GCCTTGGCCA

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AAAGGAAAAAT ATAAAAGAAA ATAAATCTC ACATTGGTGC TTAGCAGGAG AATTTTAA GACTTACAAA TCAACAAGCT
GTTCAAATAA ATAATGAATG CTGCAGCTGG CTCCTACATG GGGCTTINAG TGTCCCANIA GTAGCAGATG TCCCAGTTCT
ATAAAAT

SEQ ID NO:1375: (Length of Sequence = 338 Nucleotides)

TGCATGGAAA CTTAATCTAT TCAGGTCCCA ACTTTCAGGC TTCTCTGCTC TGACAAGTAC TAGAGGCCAA TATGATAGAC
TAGTCTGAGT TGGATGCAAG TTAGCCATTT CCAGGAATGA TACCAGGATA AGTATAATGG TCGTGAATAT AACCGGATTT
TAAGGGAGAA TGATTACACC TGGAAACAAA CTGTCAATAC ACAAGTAACT AGTTGTTAAA GATTTCATAT TTTGACCAAA
GATTTTTACT TTCTTGGTAT AGAAATGGAA ATAAACATTN ACACTTTAGG TTTTGAAAGC AACCACCTCC TAACACGGTT
CTGAGTTGGG GGCCAACA

SEQ ID NO:1376: (Length of Sequence = 307 Nucleotides)

CAAGCCTCCC TCAAAAAAAT CCCAGAGTA ATGAAAATAC AAAGTCTGCT TGTTCAAAAT TATGGTGGCA ATAAAAAAGG
AAAGGGAGGA AGTGATGGAG TAAAGTTCAG ATTAATAATA AACGGAAAGT CACAACAGTC GAAAGGTGGA AAAAAACCGC
AAATGCCCAT GANCTGATGA ATGGATAAAC AAAATTTGGT GTGTGTGTAT ATATGTGTAC AAACCTCCTT TTTATGATGA
AATAGTATTT CATTGTGTGT GCACATGTTN CACACACANT TTAAATAGTA TTTCTGCATA AAAAAAG

SEQ ID NO:1377: (Length of Sequence = 353 Nucleotides)

TGGAATACAC TTGTGAATAC AGTGIGTAGG ATACATTAACT AGTTTTCTGA GTGGGCTGCT CTTTTTTCCT CAATACTGTA
TATATTTTNN TTAAGCTCTT CTTTAAAGA TAAATATTTT TCATACTTCT CTTAAATCCT CAAGGATTAA CTCTGAGTCA
CCATTGTGGG TATTTTAAAT CCTTTTAAAT AAATCTCTGT ATTTGCAACT GCATCAAAAC AGTAAAACAT TTCACAGGGT
AGGATCTGAT GACCATTTTA TAATCAACAT TTTTAGGTAC CACAAGAG ACTTTATGAG CATCCACTGA AATTATGGGC
ATTATGTCAT ATAAATATCC AAAAATCCAT TTT

SEQ ID NO:1378: (Length of Sequence = 315 Nucleotides)

GATTTGGCAA ATATTTGGGT GAGATTGAA AATAAATTAC ACCACTGCTG CACAAGTTAA TGTGAATCAA GCATCTGTTT
ATTTCTATCA GTTATGCCT TTTTCTCTT TTTTGTGAG TGCAGTTGGG GTCACAGACT CTCAATTTGA CAAGACACTT
TAAAAGCAGG AGTAGAAAT AGGCTGGGT TTTACAACTA TTACAGGAAC TGTCAATAA AACTTCAAGT GGATCAGTTT
ATTTCTGATT TAACTTGGGG ATAAACAGTG TTCAATATTT TCCAAAAGAT TCTCCCATTA TAGAAGTCCC AAAAG

SEQ ID NO:1379: (Length of Sequence = 352 Nucleotides)

ACCGCAAAAT TTAGCTGTTT ATTAGGTGTC AAGTCTCTCC TTCTCTCCCT GCTTCTCTT TCTNCTTTTT CTCCCCACAA
ATCCTCTCAA AACACATACA AAAAGAGAAA ACTAGAAGCA AGATTGGGTC AAACATGAAG AACACAGAAA GCNTATTAA
TAGCTAGCTT TAAAGGGCTC TTTTTCAGTT TGAACAAAAG TAAAACGTTT TCAAAGCAA AAACAGAAAA CAGAGCTTCC
ACCCAGATTG TGCAACTTAA TGAGAGGAGG TTAGTGCTGA TAAACCAAT GTGAAATCTA TTATAAAGTG ACAGGTTTTT
CAAGCAAGGA AATCCAATCC AGTTGGGGGT TG

SEQ ID NO:1380: (Length of Sequence = 261 Nucleotides)

AAAAATTAG TGAAGACGTG AATAGATATT NCTGCAAAGA AAACATACAA GTGGTCAATA GGTATATAAA AGGTATTCAA
TATCACTAAT CATCAGGGAA ATGCAAATCA AAACCACAAT GAGTATCTN CTCATACCTT TNATGATGGC TAATATTAA
CGAGAGATAA CAAGTGTTTA TGGGGGTGTG GNGAAAAGAG AATGTTGAA CACTCTTGGT TGAAATATAA GTTGGTAGAA
CCATTATGCA AAACAGTATG A

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SEQ ID NO:1381: (Length of Sequence = 273 Nucleotides)

GCCACTACAC TCCAGCCTGG GACACAGAGC AAGACTCCCT CCCAAAAAAA AAAAAAAAAA TTATTAGAAA GAGGAAGAGA
 GAGATGNCAA AGCCTTTTAC AGTTGGGTGT TGGNGTITAG AGACCCAGTA CCCAGCCTG ACATACCTAC AGAAGCAGTG
 AATTTACTTA TTTACTGTTA TGAAAAAAT AGATGCTGCC AGCCGTGCAC AGCAGAACT ACTATTGANT CATATGGTTT
 TAGCCTTCAC CTTTAAATAT GTCTAATTAT ATG

SEQ ID NO:1382: (Length of Sequence = 296 Nucleotides)

CTCCACAGCT GCCACATAGA ACAAGCAAAT CTGACATCAC AGCTCTTTTA AAAATCTCCC AGAATTCTAC ACTGGAATAA
 AGATCACCCA GTAAACTCAG CTATGTTGAT TGTAGGAAT TTCTCCTTGG AGTTAATAAT AATCATTAGA AAAAAATAC
 AGGAAGAAAT AACTTCCTCC TATTCTTATT GTGATAAATT GTAACAATAG CAGACATTCT TATATAGATC CTATAAGCGA
 CAAGAGGGAA AATAGGATTT GCAANTTAAG CATCTGGAAT AAATATTTTA GGAAAA

SEQ ID NO:1383: (Length of Sequence = 293 Nucleotides)

CCAAGGACCG GCGCGTGGG CTGCTCTGGG ACCGCTTCGT GCGGGGCTGC CGCGCCGACT GGTACGGAGG CAATNACCGC
 TCGGTCTATCT GCTCTGACCA CTTTNCCTCA GCTGTCTTTC ACGTCTCTTC GGTATCCAG AAGAACCTGC GCTTCTCCCA
 GCGNCTGAGG CTGGTGGCAG GCGCCGTGCC CACCTGTCAN CNGGTGCCCG CCCCAGCACC TAAGAGGGGA GAGGAGGGAG
 ACCAAGCAGG NCGCCTGGAC ACGAGAGGAG AGCTTCAGGC AGCCAGGAT TCT

SEQ ID NO:1384: (Length of Sequence = 378 Nucleotides)

GGTGGTTTTG ACATGTAGAA AATAAGATGG AAGGCTGAAC TAGGGCAGTG GTGTTGGCAA ATAATCAGAT TTCAGGAATA
 TCACAAAGTG AGGNGCCAG GATTTCATGAC CATTTNATG TAGGAATAAG GGAGGAGCCT AGGATGACTC CCCCAGTTT
 CTGGCTGAG TAACTGGAT ATCAACAAGT CATTTAGCAA AATAGAGAAA ATAGGAGAAG CAGCAATTTG AGATAGAGAT
 AGAGGCAATA TAAAGNNTTA TATATTGACC ATGGTAAATC ACCTAAATTC AGAAAGTTGT AGAAAACTTG GGTCTGGANC
 TCAGGAAAGA CACTGGATAT GTAGATTGG AAAGTTATCA ATCTCAAAGT GATTGCIT

SEQ ID NO:1385: (Length of Sequence = 204 Nucleotides)

TCATTCTTGG GTGTTTCTCG CAGAGGAGGG NITTGGCAGG GTCATAGGAC AATAGTGGAG GGAAGGTCAG CAGACAAACA
 AGTGAACAAA GGTCTCTGGT TTTCTAGGC AGAGGACCCC GAGGCCTTCC GCAGTGTTCG TTTCCCTGGG TACTTNAGAT
 TAGGGAGTGG TGATGACTCT TAACGAGCAT GCTGCCTTCA AGCA

SEQ ID NO:1386: (Length of Sequence = 238 Nucleotides)

CCCCATCATG GGCAGCCAGA GCTCCAAGGC TCCCCGGGC GACGTGACCG CCGAGGAGGC AGCAGGCGCT TCCCCCGCA
 AGGCCAACGG CATGGAGAAT GGCCACGTGA AAAGCAATGG AGACTTATCC CCCAAGGGTG AAGGGGAGTC GCCCCCTGTN
 AACGGAACAN ATGAGGCAGC CGGGGCCACT GCGATGCCA TCGAGCCAGC ACCCCCTAGC CAGGGTGCTG AGGCCAAG

SEQ ID NO:1387: (Length of Sequence = 295 Nucleotides)

TTTTTTTTTT TTTTTTTTTT TTTTANTTAG GCAAGAAGAG GTGTGAGTAA TTGAGGAAAA ACTGACAGAT GCTTTTCCTA
 ATACCAAAT TGAGCTTACA ATTAGGAAT GAGTATGTGT AACAGNTAC AGGTGACAGT GAAGATAGAA GAACCACGNT
 GACCACAGAC TCAATGTGCT CTGTAAATC GCACAGTTTA CCCAGCATGA CTTTCCTTAG GAGGCCCCCT CCTCACGCTA
 GAGTAAAGT CCCAGTTAAG TGAAGCCTAC CAGAAGAACT AGTAGAAGAA GCTTT

SEQ ID NO:1388: (Length of Sequence = 201 Nucleotides)

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GCTAGTNATC TCTCAGACAC TTGGTCGGTA GAAAAGATCC CGCACCATCC TCCAGGNTCC AATGGCCTTG GAGAGAGGGC
TGCAGGGCCC ACGGNCATTG CTGACTCTTT AGAACGTGCT GACATGGAGC CAGACCACTC GGCCCTGAGT GCGGCGAGGA
CCCTNTTTNT GGATGTGGAG GAGCGCGGGC CGGAGCATTG T

SEQ ID NO:1389: (Length of Sequence = 399 Nucleotides)

GGTGCCCTGT TATCTGGTAA AAGAGCCACT TATGACCTCA GGIGCTACTT AACCTGGGGG GCAATTGTTT CTTAGGCCTA
GCAGATGTTT GGGATGACAC TAAAACTCA GTGGTGAGAT GATTCCTTA GCAAGATTGC TGAAGTTAGG TTTAGACGTG
GGAGGGTGGG TATGTGAGCA ATGGTGCCAA TAGCGGCTCT TTATTTGCCT TGTCTCATT ACTGCCATCA GGAAGGTGCT
ACTGGCCTCG AGCCAGGGTG TTCATAATCT GGCTTGGGT TAACCAGACA AATAGAACTT CTFTTCCTAG ACTGTTGGCT
TNTGGAGGT TGGCAGCCTC TATCACAGG TAAAATTTC CAAATCCATT TACCCAGTAT ATTCACTACA ATTTTTC

SEQ ID NO:1390: (Length of Sequence = 381 Nucleotides)

GGATTGAGGT GAAGATACAA CAAAGAAAGG AAATTGAACG GAATTATTAA GAGGGTCAAG TTGATAGGC AGATAAGACT
AGGTATCAGC AAGACATTTC AAACAAAAGG AACATTATGT AATTTTTTAA AAAAATACAT GAAAATAATA TTTAANCAAG
GAAGGAATAT GATAAAGAN GGATAGTTAG TAAAATTGG ATAACATAAA GATTATTGAA TCTCCAGTCG TCAAATTTAT
CCTAAACTAC TGGGGAGAGG TCTCATGTCA GATTTTGATT ATCGAGAAAG AGGGGTCAAG AGTATAAGNG AAATTCCTTT
TTGTTTTGAA CTTCAGTGT CCNCTATTG TGGGCAAATA TCAAATTCAA ACCAAATATA C

SEQ ID NO:1391: (Length of Sequence = 327 Nucleotides)

GAAGAAGTCC TTCTTAAGCA AGGCTTACAG ACTCCAGGG AGAACAAAAT CTCCTTATCT CTCIGGGGT TTAGGACCCT
CATCAAGTCA TAGAATTGAA ATAGAGAACA TCAATTGINC AACTTTTTAA TTTTAATAGT TTTTGTAGTA CATAAAAATC
ATGTTATGAA TTATTTTGTA GTTTTAATTA TAACTTTTT AGCACTTTTA CCATATTCIT AAAAATTAAA AATTATGAGT
NCTGAGAAAG CAGTGAAATC ACATATAGGT ATTGATTAA CTTTTATGTG ATCTTTTACC TCAAGCTAAT GTTCTTAAA
ATCAAGG

SEQ ID NO:1392: (Length of Sequence = 223 Nucleotides)

TTTTTTAATA TTTAAACAA TTTTATTCAT GAAATATGC TGTACAATGC ACTCTACACA GCCTCGACAC GGCACACACG
CACACGACA CTCTGACGGC ACGGCCACGG TACACTGCCT ACGATACGG CCGGGGACGC CGCGCCACC GCCCGTCCCG
GCCGGACACT TATAAATATG GGAGAAGGGC CAGAACTNGC GCGGAGAAAG GGGCGTCGGG GTT

SEQ ID NO:1393: (Length of Sequence = 296 Nucleotides)

GAAAGTTTAT TATTTCCCAA TGINTTTAC ATTTCATT GGAATATCA TTCTGACAG AAATAGNTAC ATTATACCTT
CGAAAGCAGA AAGATCTTAA TTAATTAAAA CAGTTTACAT TTACCTTAGC ATTAGGTCTG GCTGGCTAAT TTCAAAGGAT
TAAAAATTGC ACCNAITGG GCCAACTGGG GTCTGAATA ATTATCCNGG GTAAAAGTAT AATATTTTAT ACTTTATACA
TTTTGCTTCA TCACATTT ACTTTCCACA CAGTGTCAA CTTCACATT AAAAAG

SEQ ID NO:1394: (Length of Sequence = 281 Nucleotides)

ATCTTTGCAT CCCTGGGACG ATTTCCAGT GAGCATGGT AATAATCTTT TTGATAGGCT GTTGGAATTG AGTTGCTAGT
ATTTTNTGG GCATTTTGC ATCTGINTC ATCAGGGATA GTGGCTTCA GCTTCTTTT CGTGIGTGTG TGTCCCTGTC
TTGTTCTGGT ATTTGGGTAA TATTGGCTT GTAGAATGAA TTTAGAAGAA TTCCTTCTT TTTGATTTTT TTGGAATAAT
TTAAGAAGAA TTAGTATTAG TTTCTTTTA AATGTTTGGT A

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SEQ ID NO:1395: (Length of Sequence = 323 Nucleotides)

CTTTTTTTTAA GATTTCAAAC TGGGTTACAC ACTGGAAAAG GCTGGGTAA GGGCCGAAAT TTAATAAATC TGTAAGTATA
 ACTAAAGGCT ACAGAGATTT CATATATTTT TTTTAACTTT TAGAAATCAG AGTGCTTATA AAATGGCTGG CTCATGGCTC
 TGTCACCCAG CATCTCTGAC GCCGCTCCT AGCCTTCGTT GGTGAGATAA CCNGGNATAG TGATTCCATG CGTAAACAAC
 AAGAATACTA AACCAATAAA ACTAGCTTAT CATGCAAATA TTANGGCATC TAGAAAGTCA GTTAAATAA TATTGTCATA
 GAG

SEQ ID NO:1396: (Length of Sequence = 384 Nucleotides)

TGCCCTCCCG GTTCATGCGA TTCTNCCGCC TCAGTCTCTT GAGTAGCTGG GATTACAGGC ATGCACCACC ATGCCTAATT
 TTTGTACTGA TGCCAGCACT TTCTTAGCAA CCCAGCTGG TGTCCTAGTA TGCCCCCTCC AGTCCACTGT CTCGGGCCCC
 AGTTCAGCGC TAGGACTTGC TTAAGAGTTT CAGTCTTGT AGCCTATACT GCCTTTNACG TTTATTTAGA GATCTAGAGC
 ACTTTAACC TCAGTGGCAA GGTGTGTTG AACTTGAGTT CGGACCACTG GGATTGGCAA ATTCCTCTCT GGGCTAGGGT
 TGCTTTAAAT GCTCCCTTCA CGTGTGGGCA ATCAGCTGAG TTTGGTCCAG TTTTCCCTTC TGCT

SEQ ID NO:1397: (Length of Sequence = 370 Nucleotides)

TTGAGTTTNT TCAGTGGCAT CCCCTGCTCC CCTGAGCACA CACAGTGTTC TCTATTTATG ACTGTAGTGC CAAGCAGAAT
 TTCCATGTNC TTGCTAGCTG CCCATTCTCA CCCCTCAGGG TCTCATACTT CTCCTGGAA GCCTCCAAG CAGTCAATGT
 GACAGGGACC AAGTATGTAC AAGGCAACAT ATTGGGTTCA AGTGCAAACT AAGGGAACCA GGGCTGTTC TTTAGTTTG
 GAAGTTTTTC TTTATCCTAA GAAAAGAGAC AGACCAAAAC CAAGAAGATC AACAATAACT CTTCTCTTG TCATCAGGT
 GATGACATCA AGGTACTGAT ATTAACCAGA AGTTACAACA AGAAGGAATT

SEQ ID NO:1398: (Length of Sequence = 307 Nucleotides)

ATCAGCATTA GGTTCACC AAAGTATAC AAGTCTGAAG GTCTTCATCA GCAGTCTCCC TCATAGTCAG CGCCATACCG
 AAGAGGCTG TCCCTCTCAT AGGGCCTTCC AGCCACTNCT TCCCCACAGG CCTGATTCTN CTGTGGCTGG GAGTGTGGAC
 TGATTGTGTA TGATGTGAGA GATCCCNNGG GGTTGTAGCT ACCGCACCTG GCTGAACCTT CAAGGAGAAG TTTGTGCATC
 ANTTTTCAAA AAATTATGAT ATCAAAGAT AGCTGTGCC TACATTGGG AAAGATACAA AAACCTG

SEQ ID NO:1399: (Length of Sequence = 380 Nucleotides)

CTGAATTATT GAGGATGAAT TGATAAAGAC AGGTGTAATG AACTGAGGCC GGGCATTAGA CTGAGCAGCT GACTGTCCCT
 CAGAAACCAT AACCTTGCTA CCCGATTGG GCAITGTGAC AACTGTTGAC ATCAATGCAG ACTGCAAGTN AGTTGGCAAA
 GCTGCTGATG TGTTAGCTGA AGTTGTGATG GGATTGGAAG TGACAAATAC AGTTATTTGA TTTGGGGGCA AGGGAGTNGA
 AATGGAGGAA GAGCTAACAG GTCTTGACAT TACTGGAGGG ATGCTTGGTG CAACGTTAGA ACTGACCTCA CTCATTCGG
 GGATGCACAA GGGATGAACA CAGCTCATTT CCTGTNAGGT AAGTTTAGGG AATTAGAAGG

SEQ ID NO:1400: (Length of Sequence = 232 Nucleotides)

ATTATAGATA CACACCACCA CACCGGCTC CTCACATTAA AGTGGGNTTA TGACCATGAA CACTTCGTAT TAATAAATGT
 CTCAGCACAC CCAAGCCTGA AAATCTGATC TAAACCTCCT TAACCTGAAT TCCATCCACA ATCCACAACCT TNCTCGGNA
 AAATNINICC CAGCTCTCC TTCTCTAGC CCAAGAAACA GCCTTAACAG CGNGCGATTT CATTCCTACA CT

SEQ ID NO:1401: (Length of Sequence = 349 Nucleotides)

AAGCTAAATT TATAATGAAC AGATTGAAGA AAAATAAAGA GCTACAGAAA GTTCAGGATA TCAAAGAAGT CAAGCAAAAC
 ATCCATCTTA TCCGAGCCCC TCTTGAGGC AAAGGAAAC AGTTGGAAGA GAAAATGGTA CAGCAGTTAC AAGAGGATGT

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GGACATGGAA GATGCTCCTT AAAAATCTCT GTAACCATTT CTTTTATGTA CATTGAAAA TGCCCNITGG NTACTTGGAA
 CTGCTAAATT ATTTTATTTT TTACATAAGG TCACTTAAAT GTAAAGCGGT TAAAAGACAT CTTTNCINGC ATTGCCATCT
 TAATATC AGATATTACG GGATGTTAG

SEQ ID NO:1402: (Length of Sequence = 338 Nucleotides)

GTAATTGCTA TTTGATGTTA TTTTAAGAAA TTAACCCCTA AAACITTAAT TCCITAAAAC AATCTCAAAC AGAAGAAGCA
 AAAGCTTGIN CTGTGCTCCA GGAAATAAGA TTCAGCACCA ATGAAAATAA ATTATAGAAA ATCAGAAGAT GGGTCAATAT
 GAGTGGAAAA AACCTAACAT TTTAATTGTT TTINCTCTCA ATAATTGTGT TGAACCATCC AAAAAAGTAT GATACAAAAA
 TAGCACTATA CTAAGAGCCA GATGACATGT CCTTAAAGCC TTAGCTCTGC AAATTATTGG TTGTGTAACA CTAGGNNACA
 ACACTTAGNC TCTCCTAG

SEQ ID NO:1403: (Length of Sequence = 381 Nucleotides)

GGAGTCTCAC TTTGTGCCC AGGCTAGAGT GCGANGGCGT GATCTINGCT CACCACAACC TCCATCTCCT GGGTTCAAGC
 GATTCTCCTG CCTCAGCCTC CTGAGCAGGT GGGGTACAG GTGCCCGCCA CCGCACCCAG CCAACTTINT GTTCTCAGCA
 GAGACGGGCG TTGCCCATGT TGGTCAGGCT GGTCTCGAAC TGACCTCAAG TGATTGCCC ACCTTGSCCA CCCAAAGTGC
 TGGGATTATA GCGGTGAGCA CTTCACCTG GCCTCTAAGC TTAATCATTT CTAGGCTTTT NATTTAAAGT GAGAAACATG
 TGACTCTTTC CTTCATTG GGACACTTTA AAAGGGGTTA TTAAATIGAC CCTAATTACA A

SEQ ID NO:1404: (Length of Sequence = 325 Nucleotides)

AGCTCATCAG CTATCATTTG TGTTAGTGTA TTINATGTAT GGCCCAAGAC AATTCTNCTT TTTCCAGTGT GGCCAGGGA
 AGCCAAAAGA TTGGATACCC CTGACAGGAT TCCAGGATTC TTTTGTAAT NCTCAGAGGC CCTCTGTGCA TACTCCGTAA
 GGACTATCCA CATCTTTAT TACTTTCATT GGCAATAGGT ATAAAATTTT ATTTGTGGN TATTTTACTG NAATGTTACT
 TGTTTTTGCT TATTTACTGA TTGGGTGGGA GGAAGTCAA GGATGAATAA ATCTAACNT TTTTAAAAG GAAAGGCTAA
 AAATA

SEQ ID NO:1405: (Length of Sequence = 349 Nucleotides)

GGATTATGAC TGAACGTCT CAGCATGTTG GCCTTACCCC CTGGCGGTGG CTCGAACACA AAGATGCGGC CCGCACGGAG
 CAGATTCACA GGCACCTTGG GGTGATCTC CATGGTTAGG AAGAGTCGGA AGCAGGCATG CCGCTGCAGG GAATGCAACT
 TCTTCTCCAG CTGCATCAGC CACCCTGGGG CCAGATGCAC ATTCTTCAGC ATCACCACCC TGCCCGANTT TACAAGCGGT
 GTTTTATTGC CTTATCTGCT TNGTTAAAGC CTTCTTCAGA GCCGATTGCA ATTGAAGGGA TCTTCGGGGT TCTNCTCGGC
 TNCAAAGGTC CTCGACAATG TTCCCTTG

SEQ ID NO:1406: (Length of Sequence = 392 Nucleotides)

GGACTGCCCC TTGTTTATG AGACAGGGTC TCATTCTGTC ACTCAGGCTG GAGTGCACTG TCATGATCAT GGCTCACTGC
 AGCCTCGACC TCTCAGGCTC AAGTGATCCT TGCACTCAA CCTCACGAGT AGCTACGACT ACAGGTATGC CCCACTATGC
 CTGGATAATT GTNCCTTTTT TTTTTTGGT AGAAACAGGG TCTCATCTG TTGCCAGGC TAGTCTCAA CTGCTGGACT
 CAAGTGATCC TTCCAACCTG GCCTCCCAA GTGCTGGGAT TACAGATGTG AGTCACAATG NCCAGCATGG ATTGTCCTTT
 TCAGACCCAG ACCAAAGAAC AGGACTTATT TGTCCAAGA CCAATCTAGG NAAAGTATAA GCTGTGTTGT CA

SEQ ID NO:1407: (Length of Sequence = 362 Nucleotides)

GTTAATTGGG NTCACAAGC AATAATTTCT CCACAACAA AACCACAACT TGAAGNGAGT TGAAAAGNGN TCAATAGTGG
 AAACAGTCGC CTCAGTACTT TTNCTTTCTG GNTTTCATCT CTAGAAATTT NAAGTGTIN AGNCAGAGTC CACCCTTTG

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GCAAGGCGNG AACCNATGAA TGGACTCCIT GTGTGAATTA TTGCATCTTC TTCCAAAGCA GGITCATCAA GACTTTCACA
GAGATTCATT TTNTTGAAGA AGTAAGGGTT AATAGGAGGA TAGAATTGG TTCCNAATCT AGTGNTAAAA GTGTCCAAGC
AAATCAAAAA GTAAGATATT TTAGGGGCCA TACCCACATC TT

SEQ ID NO:1408: (Length of Sequence = 388 Nucleotides)

CCCCGCAGCA CCACGAGCTG ACCTCGCTCT TOGAGTGTC GGTCGCTTT GACTATGTCC TGCCCTCTAT TCTGCAGTGC
CAGGCCGGGC ACCTGGTGTG TAACCAATGC CGCCAGAAGT TGAGCTGCTG CCGACGTGC AGGGGCGCCC TGACGCCAG
CATCAGGAAC CTGGCTATGG AGAAGGTGGC CTCGGCAGTC CTGTTTCCCT GTAAGTATGC CACCACGGGC TGTTCCTGA
CCCTGCACCA TACGGAGAAA CCAGAACATG AAGACATATG TNAATACCGT CCTACTCCT GNCATGTCC TGGTGTCTTC
CTGCAAGTGG CAGGGGTCCC TGGGAAGCTT TGATTGTCCC ATNINAATGG AACGGCCAC AAAGAGCA

SEQ ID NO:1409: (Length of Sequence = 348 Nucleotides)

CAATGAATC CTTAAGCTTT GTTAATATGA GAATGTCTTT ATCTCTTCIT TATTTCCAAA GGACAGCTTT GCTGGTTAAA
ATATCTTGG TTAAGTTTG TTTTAGTAC TTAGCATATA TCATTCCACT CTCTCCTGGC CTGTAAAGCC TCTGTGAAA
GATCCACTTC TAGCCTTATT GAAACTCCCT TCTATGTTAT TCGNTTCINC CTCTTGCTGC TTCCAACATC CTGTCTTGT
CCATAATTG TAACAGATTG AATATAATAT GAATTAGNCC TCITTAGACT GAATCTCATT GGAGNCTTTT CACCCITCTT
GTITTTGGGT ATTTATNICT TTTCACAG

SEQ ID NO:1410: (Length of Sequence = 370 Nucleotides)

GACTATTTAT TCTGCCITAA ATCAATGGCA AATAAGTCAA GATGACATTT TGTAATGTA GACTATGGAT AACTCCTAA
TAGATTGATG TAGTCATAAA AGGGGGTCAA GTAGATGTTT TNCITGTATG TAAGCAATAA TTTTCCCGTG TCTTATGAG
TATGGCTAGC GATTATTTAT TACATGCTAG ATGGGTTCIT TGCATGTGGG TTCCATATAG GTGCAGAAAT TTCTCAGCC
ACTGGAGGGA TTTCGACCAT ATTTGTCATT TGGATGAGCT GTTATTAGAT TGAAATCTAC ACATCATTTT ATTAAAAATT
GTGCCCTAGA AAACGCAAAG CINTTGACA ATGGCGATTA AAATTATGGG

SEQ ID NO:1411: (Length of Sequence = 385 Nucleotides)

GTCTCAAACCT CTGACCTCA GCGATCCAC CCACCTCAGC GTCCCAAAGT GCTGGGATTA TAGGCGTGAG CACCGCACCT
GGCCTATGAG TGGTCTTTTA ATTAGGAAAT TTACATTTT ACATTAGTGA GATTGGTCTT TGGGGCTATT GTACTTTTTT
TTTTTTTTT TTGAGATGGA GTCTGTCTT CTCACCCAGG CTGGAGTGCA GTAGTGCAAT CTGGGCCAC TGCAACCTCT
GCTCCTGGG CTCGAGTGAT TCTCTGCCTC AGCCTTCCAA GTAGCTGGGA CTACAGGCAT NTGCCACCGC ACCTGGGGTA
ATTTTNGTGG TTTTITAGTAG AGAATGGGG TTTTGCTAAT GTTGGCCAG GCTGGGCTT GAAAT

SEQ ID NO:1412: (Length of Sequence = 337 Nucleotides)

CCATTGAGAT TCTCCTGGG CCTCCTGCC CCATTGCGA CAGATTGCT ACCTGCTCCA GCTCAGCGAC CCTTCCCTCT
ATGATGAAGT GCATTGAAGA GAACAATGGT GTGGACAAGA GGATCAGCAG GTTATTTCTC CCCATCGGGG CCACCGTGA
CATGGAAGGA GCAGCCATCT TCCAGTGTG GCGCGGGTG TTCATTGCGC AACTCAACAA CGTAGAGCTC AACGCAGGAC
AGATTTTCAC CATTCTAGTG ACTGCCACAG CGTCCAGTGT TGGAGCAGCA GCGTNCAN CTNGAGGGT CCTCANCATT
GCCATTATCC TGGGAGG

SEQ ID NO:1413: (Length of Sequence = 367 Nucleotides)

ATAAGTGGAG TGAAGAAATT AATGCATAGT TCAAGCCTAA ACAATACAAG CATCTCAGC TTGGAGTCA AACTGAAAA
TGAAGATCAC CTGGCCAAGG AGCTGGAAGA CCTGAACAAA TGGGGTCTTA ACATCTTAA TGTGGCTGGA TATTCTACA

336

ATAGACCCCT AACATGCATC ATGTATGCTA TATTCCAGGA AAGAGACCTC CTAAAGACAT TCAGAATCTC ATCTGACACA
TTTATAACCT ACATGATGAC TTTAGAAGGC CATTACCATT CTGACGTGGC ATATCACAAC AGCCTGCACG CTGCTNATGT
AGNCCAGTCG ACCCATGTTT TCCTTTCTAC ANCAGCATTG GACGGTG

SEQ ID NO:1414: (Length of Sequence = 360 Nucleotides)

GTATACAGCG TGGTCCAGCC ACCCGACAGC GAGATGGGCA TTTTAAGAAA CGCTCTCGGC CAGATCTCCG AACCAGAGCC
AGAAGGAATC TTTACAAAA ACAGGAGTCA GAACAAGCAG GGGTTGCTAA GGATGCAAAA TCTGTGGCCT CAGATGTTCC
CCTCTACAAG GATGGGGAGG CTAAGACTGA CCCAGCAGGG CTGAGCAGTC CCCATCTNCC AGGNACATCC TCTGCAGCAC
CCGACCTGGA GGGTCCCGAA TTTCCAGTTG AGTCINTGGC TTCTCGGATC CAGGCTNAGC CAGACAACTT GGGACGTGCC
TCTGCATCTT CAGACAGAAT TNCTAGCCTG CCTNAGGAAA

SEQ ID NO:1415: (Length of Sequence = 314 Nucleotides)

CTCAACACA GCATTGAAG TCTTAATATT TTAGTACATA CTATACTATC TCTNCTTACA ATTGTTTTTT GTTAAAGAAA
CCATGTTTTT NATTTAAAG AGTTTCCTTT ACTGTGGATT TTAGTGATTG CATCTTTGTT GATGGGTTAA GATTGTCCNN
ATAGCAT TAGTNCCTTC AATGTGCTGT ATTCAGTGCT GCCTCTGGGC TCCTAACTG TGGAGGGCTG TTTGTCCCTA
TAAATGG GGACAGATTG TCCTGCTTTT TAATTTTCAA TGCTGACTT TTACCCNCTA ACTTTCCGT AGAT

SEQ ID NO:1416: (Length of Sequence = 370 Nucleotides)

TTCCATTTTT GCTCCTTCTC AGGATAATAG CAGACCGGTG ATCACAACCT TAGTTTTGAT GAGATAACCT CCTTATCT
TAAAAATGGT CTCTATTATT TTCCAAGAGA AGACCAGTAA AACTAAACA CCTGCCTTGA TCTCAGTGTC TTAGATGTTT
TCCTGTTTCT CCTTTATCCT AGCAAACCTCC CCAGGTGCTT ATTCCTATTC CCATTTTATA GATGGGCAAC TGGTAAGAG
AGGTAAGCTT GGTGAGGTCA CTGAGATAGT GGGGAAAGGA GCTTGGTTCA CATCAGGTAT GCATTCCCCC AAGGTTCCAC
TGGGGCATCT GAAGGAAGGG GTTTCTGGAA GTGCAAAATA TAGGGTACTG

SEQ ID NO:1417: (Length of Sequence = 365 Nucleotides)

GACTCCTTCC CCAAGGAGC CATCAGCACC AGTTGTCCA GAGCAGCCAC AACACCAGTG ACCTCCCTTC TGCTTCCGGC
CAATCCCGAC AGAGCCTCTT CCCGAGTCTT GAGCTCCTGG ATAGCTGCCT CAATAAAGCA GGACTCGGGA GTGTGCTTCT
CCTCTGCCAG CTGCTGCTCT AGTGCTACTT TCTCCTCCAG AACTACCGG TGCAGCACCT GCTCCTTAGA GGCCAGCAGC
AACTTGGAGT ACTGGCTGTG CTGTTTATCT CCTAGATGAA TGGGATGGTC TACATTATC CATTTGGGAT TTTGGGCAAA
AGCCACCAAC AACCCCTTTT TTTCCCTCTT CAATCAAGCT GCAAT

SEQ ID NO:1418: (Length of Sequence = 354 Nucleotides)

CCAAATCCTT AAGTTTACAA AGCTGTGGA AAACCTTGIG TCCTGATTC AACAATCAG CTTGTGTTGA AAGATGAGCC
AAGCTCAGAG AACTAAATTT TTATGTCATG CCATAAGCTG GAGAGGAGCC ATTTGGCTAC AGCTCGGGA CTTCATTGAG
GAGCAAATGA AAGGCACATG GACGAGCAG CTGGTGAGT TCATGTTCTT CCTGCCTGTG AATTGAATAC TGTCCTGGTA
GCAGTTTTGG GTCCGTCAGG AGCTCAAGGC TGGTTTGTGT GGCTGACTAC GGATGAGCAC TGAAGTTGCC TCAAGAATTT
AAGGGGTGTC CACANCAGCC TCTTGGGGTC TTTT

SEQ ID NO:1419: (Length of Sequence = 363 Nucleotides)

GTGGAAAACG TGGAAATGAT GTGGCCACTG AAAGAAATTC AAGACAACCTG AAACAACCTG AGATTTCCAT TTTCAGCTCG
TGTTTCTTA TGAACAATAA CATTGCAGAA GGGGAAATAT CAGAAAGTTG ATTGATTTTT AACCCAAAA TAGAATTTTT
TGTAAGCTAG GAAAGCATCT AAAATTAACA AGAATACAAA AATGCACCTT TGTTTACATT TGCTCTATTT AGATCTTACA

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AGAGATTATG TCTTGAATCT ATCCTGACTT CAGCAAAAGA CAAAAGAACG TTGAAAACAT CCTATTTCCTA AATCGTTTAC
AGGAAGTTAC CTAAGGAGNC TGACAGATTG AACGGCTGCT ACC

SEQ ID NO:1420: (Length of Sequence = 326 Nucleotides)

GAAGATTTTC TAGAAGCAA TAGTGCCACC ATCCGTCATG AGGNTCTGTT TCTATAACGC TTGTNTGTCT TINAGACTAC
GTAGGTGGTA GCTTATGAGT AGTAATGINC TTTTGTAGT AAATGTCACC AAATAAGCAA ATAAGAGAAA CATGAAGGCC
AAAAACTGIN TTAATATTCA GGAGAAAATG GACGGTTTAG CAACAATACA ATGTAGACTT CAAATATGA AAAATCAAGG
AAATTNCTGT CATTGTCTTT AAGGGCCTCC AGAGAAGTAT TAATTGTGCC TTTATGTGAA TTTAATGAGA TCATGTGAAA
TGTATG

SEQ ID NO:1421: (Length of Sequence = 294 Nucleotides)

ACCCAGTACA GGTACTCTCA CAGGAGGCAC TCAGCAGGGA TGTAGTGACA GCAGGTAAGA NTCCACCTCT NTCCCTGCCT
GCNCTGGGA TCCAGTATTG GCCCATGTAT CTNCCCCATT TCCTCAGGCT TCCTGGACTT TTNTTGGAGG GAAAGAGGAA
CAGAAAGAGG AGCAGGCAGG AGAAGCAAGA GCTCCCGGGG GCTATGAAAG GTAACATACC TGGAGAGTTT NGGGAGACGG
CGGCTGTGNA GAGACAAGGG GAAGAGACAG AACAGGAGT ATTCTAAGAA GCAT

SEQ ID NO:1422: (Length of Sequence = 306 Nucleotides)

GAAGGGCATA TTTAATAGCT GCTGCAAACA TATGGAATAG TGCTTTAATC AGTGGTGAAC AAGAAATTGC CTGTGTGTGG
TTATAAAAC AAGGGACATT AATGINCTTG TCTTGTACC ATAGTAATGT GNAAAAAAA ATAGTGGTTG NAATGGTGT
TAATTGTAC AGTTTGTGTC AAAGTAGAAT GGNCAGATA TTTTGGTGA TAGGCTTTTG TCTAGTTAT AAAAATTAGG
NCATTGTGTA TGATAAAGGC NGAGAATCTT AACAAATTGGG CACTGGCCCA GAAAATTNCA GGGTGC

SEQ ID NO:1423: (Length of Sequence = 274 Nucleotides)

TGTGTGTGTG TGTGTGTGTG TGTGTGAGAA ATGGGGAAAG ACTGGTCTAG ATAATATTTC AGGTACCTTC CAACACTAAA
ATGGTATGAT TCCCAGCTTA CAAAAGCAA ACTATTTTAA TATTCAACAC TCAATATAGT GTATCAAGCT CTCGGTTTAT
GTTTAAGGGC TTAGGNAACA GCAGCAACTA TTCGTGGGCA ATTAATNCAA AAATCATGT TACCAAAAAG GCATGTTTAG
GNCCTGCAGG ATAGTGAAAA AGCAAGAACA GTCT

SEQ ID NO:1424: (Length of Sequence = 297 Nucleotides)

GGAGGATTAC TTGAGCCAG AAAAAAAAAA AGCCTCAGG GGTTCGGTG AATGTTGTGT GGACTTCCGT GAGAACAGAC
GTTTGATGTG AACTGANTTC AAGGCTGATA CAGCCAGAA CCAGGNACAA GGTGAGAAAC TGCTCGTTTC CGGGAGGCAG
GACTTCCTAA CCGGGAGGCA CTGCAGTACA CTTTCTGAAA CAGGTTTGA GGATAGGGAA ATTCTGTNCA GCCCGGGGGG
ATCCACTTAG TTTCTTAGNA GCGGCCGCA CCGGGTGA AGGCTCCAGC TTTTGT

SEQ ID NO:1425: (Length of Sequence = 276 Nucleotides)

ATTTTTCCTAA GGATGGAAAG GTCAGAGAAA AATAAAATAA AACATCTTTC AATAGTCTTT CTGGTAAAA GCAGCGTCTC
TNTGGGCTGG GGAGTAAAGG GTGTGGGGCA AGGGAGTGG GGAGAGGCTG TAAACCTTCC CCCAAACCCC AGTTTATAGT
CCTTTGGTTT CCTTCTCCCA GAAGATGNC AGAAGGGCAT NGTGGGNAAC AGCAGGGNGG AAAATATGGT GATGACAAAC
CCAGATGAT CAAGGGGCTG ATGCTCCTGG GGGCCA

SEQ ID NO:1426: (Length of Sequence = 295 Nucleotides)

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TAGTGGCATA TGGACCGGAA AGGGTTAATT TAAAGGGGGG GAACCTCAAA AGTTTTTTTA AAAAGAAAC TTGTCTGCCA
CAGTATGTTA CCAGTGTTAA CCTTCTGCC AGTTAGCAAA CTTTTCCTT AAGCCTTTTT CCTCTAGGAT ACTCCCCATG
TTTCGGTAAT CTGGGCATA CATTTTTTAA GNATGGACCT CTTTGCCTTG TTTTGTTC ATGCTGCTGT ATGTCCAAGT
ATTGTTAATT TCATAATAAG ACAAGAGTTG CTTTCTTTTT TAATTCCTTT TTCCC

SEQ ID NO:1427: (Length of Sequence = 207 Nucleotides)

TCAGGAATGA TAGTATCTGG GATGAACTCT TCTTTAATAA GATTCAGGCC AGTNTGGTG GGTGNTGCG GATGATTGTT
ACTGGNGCAG CCCAGCATC ACCAACAGTT CTGGGAATTT CTCCGGGCAG CTCTAGGGTG CCAGGTTTAT GAAAGGTTAT
GGCCAACTG AGTGCCACAG CTGGATGTAA CCTNCACCA CTCCTGG

SEQ ID NO:1428: (Length of Sequence = 223 Nucleotides)

TAACATTCTC TCCAACCTCC CCAGGTCCCA TCAGTGTTGA GAAGGAATCT AGGCCAGCTC CTGGGAGATG CCAGTTAAGC
CGCTTTGAAT CCTGTGCCTT TCCAATTGNC CCTTATAGCA GTCGATGTCA GGGATTGGGA CAACTTTCAA AACAAGTCCA
TCAAAGTCCC CATGGGCACT AGGGGCTCTG GGAACCCAGT GTCGAGAGGC TTAGAGNCAT TGC

SEQ ID NO:1429: (Length of Sequence = 222 Nucleotides)

AAAACCAAGG AGCAAAGGG AGACAGAGAG AAAAGTGGGA TGGATTCAAA GACATTGCAA CATAGAACTN ACCGAACTGG
CTGTGNTGAG GTAAGGGNGG CAGGATGACT CACAGGTTTC TGGGATTATG TGCAACAGGT GGAAGGTGAT GCCATTAGCC
AGAATAAGGC TGTAGGCTNA AGGGGAGTNA AACTGGTTCT GGGGTATAA CATTGATAGG CC

SEQ ID NO:1430: (Length of Sequence = 246 Nucleotides)

CAAAATTTCC TGTATCCTTT CATGGGTTTIN CTTTTGTTTG TTTTGGTAAG AACATTTAAC ATGAGATGTA TCTTTNAGTT
GTTGTGTGG TTGANCTTTT TTAGATACAT AGTCTCACTC TGTTACCCAG GACTGGAGTG CCAGTGGACA TGATCCACAG
CTCACTGACA GGCTCAAC TCCTGGGACC CAAATGAATC CCTCCACCT NCAGCCCTCC CAAGTAGGCT AGGGACTACA
GATGTG

SEQ ID NO:1431: (Length of Sequence = 364 Nucleotides)

CTNCCACTC GATGATGCTT CTATAATTTT GCCCTTAAAC AGAACTTTC AAAAGGGAAG AGTTTTTGTG AATGGGGGAG
AGGGTGAAGG AGGTCAGGCC CCACTCCTTC CTGCATTGTT TACAGTCATT GGAATAAGG CATGGCTCAA ATCGGCCACA
GGNCGGTGA CCTGTGCCC CAGGGTTTTG CCCCCAAGTG CCTCCATTTA AAAGCATTAA GGCCGGTACG GCATCTTCAA
AACAGAGGGC TGGCATTGGA GGAAACCTT GCTGCTTTAG TCCGATAGG GTATTGAAAC CCCGNTATA TTTTAAGGCA
TTTTAAATTC TCTTCCCCC ATTTTATTGA CTTTGAACAA TTAA

SEQ ID NO:1432: (Length of Sequence = 208 Nucleotides)

GIGAGTNAAC ATGGATGGAA ACAATTAATT AGGTGTGNC AAGTGAAAA CACCAAAAT AAGATTAA AAGAATGTCA
GGTATCCATA GAAAAATATT AATAGGTCTA ATACATATGT AAAANTTGGC GTCCAGGGG GNAGAGACTG NAAAGTTATA
TTTNNATGG CTGAAATCCC CCCAANTTTA ACATAAAGCA CAACATTT

SEQ ID NO:1433: (Length of Sequence = 274 Nucleotides)

GGAAGGTTTT TAATGCATGA AGTATACTTG TGATCCTGGA GGTTGGAAAA GATTCAGTAA AGATAAAGTT TGGCAAAAT
GATTCINTCC CTAGGATTG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT

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CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCT CAGCCCTTGC AACTGTTTCC NATGACTTTG GACTTGGCCA
TGCAACTTGC TTTGGCCAAT ACAATGTGAG TTAA

SEQ ID NO:1434: (Length of Sequence = 249 Nucleotides)

GCTCCATAGG TCTAAGTTTG ANCTTTTCTA GAAAAGGATT TGCAGGACGA TCTGACGAAT CTGGGGCTTC CAAATTAGTT
CCAACAGTTC TAGTATTTTT TTTTTTTTTT TTTTGACAGA AGCAAATAAG TAAGTTTINAC TTTGTGATTA AAACAAAAGT
GAAATGCATT TAGTCCCAGG AAATGNCAAT CCTTCTGCA TCTNACTTTT TTTTGCTGTG ACCTCGAGNT TCTCTGTCC
TCTTCAGTT

SEQ ID NO:1435: (Length of Sequence = 201 Nucleotides)

GAATGGGGCC AATGGCACTC ACTGTNTCTT CAGGCCCCCA CGGACGGCAT GCCTGGGGAA GCCTAGTCTA CTTACCATCA
GCACGTTGAT CINTCACACA GCATGGAGCC ATAGTTTACA AAGGACCACG GCAGGTCAAG GACAGGCCAC TAAACTTTTT
GGTGTGGGC ACATNACCCA CCTCACCAN CATCAAAGAC A

SEQ ID NO:1436: (Length of Sequence = 312 Nucleotides)

GGGAAAGGTA TATTAACCTT CTGCATCAAA GATGTAACAG TCATGGGGTC TTGGTGGCCA TCTGGTCTGA GTTAGGTACA
GGACAAGAAA GAGTCAATTA ATCTATAATA AAGATCAATG ATTGAAAGAA GGGAGATCTG GTCTCTGTCT CTCCTAGTCA
TTTACAGAAC AAGAGCAATG AGGAAGACCG TTATGCTATA ATCTAAGNAA CAGAATTGGA AATATGCTAC TGACTCAGTC
TCCAGGGGCT TAACTTCCCC CTGGCATAA TAAATTTAAG GAGTCCTAAA ATTTTATTTT CCTTACATT GG

SEQ ID NO:1437: (Length of Sequence = 294 Nucleotides)

ATTCCAATGG TAATACTAAC GAATGTGCT ATCTAAATAT TGGATAGTAA AAACGTCAAC ATTTAGAAAA TGTATATCAC
ACAGGGAACC AATATTTTNC AAATTATCCA CATCTAATAT TAGGCAACCA CGCGCAANAA AAGACACGTT CAAAGTACAG
GAGAAATGGA TGGATTTTAA TGTGAGATAG TACAAGANGT TTATTGATAT AGTTTCAAGA TTCCATATTG TAATAAACCT
TTAANGAAAC TTTCACTTCT TGAGTTTGG GTATAGGAAT CCAAAAAAAAA AAAA

SEQ ID NO:1438: (Length of Sequence = 311 Nucleotides)

GGCCCTTTGA CTTTGTGAAT GAGCACAATG AAATGCCGCC TACTGATGCT TCTNATGATC AGAACTCTTT TTTAATAAAA
TAAATAACAT AAATCGTTGA ACATAATGTT CNGTTGAAT GCAAANCAAA AAAAATATGG NAAACATTTT GNTAAAATTT
TTTCNGNTA AAACCATGAA CANTGGCTAT GATGAAGGT ATTACATATG GAAAAAAAAAC TCACACAAGC ATATTTGNAT
TTGGCITGAA GGGAAACCCAT CATTAATGC AANGCTAGG ATTCTTTTNG AAGCAGTTGA TCCTCAGGT T

SEQ ID NO:1439: (Length of Sequence = 265 Nucleotides)

CGTGACACAG TTGAAGGAGT CGCTTAAAGA AGTCCAGCTG GAGAGAGATC AATATGCTGA ACAAATAAAA GGAGAGAGGG
CCCAGTGGCA GCAGAGGATG AGGAAAATNT CGCAGGAGGT TTGCACATTG AAGGAGGAGA AGAAGCATGA TACGCATCGG
GTAGAGGAGC TNGAGAGGAG CTNTCCAGA CTCAAAAACC AGATGGCTNA GCCACTGCCC CCGGATGCCC CAGCAGTNC
CTCTGAGGTG GAGCTNCAAG ACCTT

SEQ ID NO:1440: (Length of Sequence = 241 Nucleotides)

GTTTACTCT TGTGAAGATA GCACTTTAAT CCTAAATGAG CATGTAACTG GTGACAGATC CTATATCAGT TTTAATAATT
GAAGCAGATA GTAATACTA GATTATTGAC ATTTTNGT CATGTGTCA GCTATTGCTT CAACTTGCT CAAATTATAC

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TTGGNATTTT ATAGTGTTTT ATTTATTATA TACTCTNCTT GTAATAANNT GGTAATCTAG TTTCCAGAAT CATGCAAATA
G

SEQ ID NO:1441: (Length of Sequence = 247 Nucleotides)

GACCCCGATA TTCCGGCATC ACATAGATAT CCTCCAGATA AANGGTGCGT CCCTTCCATG TACTGTAGAT GAAATAGTAT
ATCCCATAGC CCACCACGCA GGGCCCCAGT AGCTTCCCGG GCGCTGGAAG AATCTCTGCT ACCAAACAGT GATAGAAAGG
ATTGINTCCA AAGCCATCTG CTCTCAGGGC TTCTTCACTG ATAGGNGTIT TTTTCAAGNA ATAATCCATG CTAAGAATGG
GGTATTT

SEQ ID NO:1442: (Length of Sequence = 233 Nucleotides)

GATTACAGCC AAGTTCATGA ATACAAATAA AATAGCAATT TCCTCATTC TCTCTTTTGT TTTCTGNTCA GAGAAATCAG
GAGATGGGAG CATTATGCTC AGAAACCGAA GAGCTCTTCC AAGAGCTCCA GCTTAGAGTC CAGGCTTCCA GAGCATGCAG
CCTCCTAACA CGTATGIGGT CACATGTGCA AAGACCTNTA TTACAAAATA TTCAGAGCAG NATTTCTINTT AGG

SEQ ID NO:1443: (Length of Sequence = 288 Nucleotides)

AATAACAAT GTGCAGTTT TTATACTGA TCGGAAGAAG GTTGACCCNC AGTTATCACC TTTAAAAAAT GGTCTTAGTT
AGGCTTTCTC CCTTTGTCTT TTTCCAGAAG AAACCTGGAG TCTGTCAAAT TTCACAAAAT ACCCTGTTGA GATTTTCCTT
GGCTTTGATA AGGGTGAATT CACAGATTAA TTCGAAAAG AATTTACGGC TTTCTAATCA AATTGTTCTT TCCAGGGGNT
TTTGTGNTTA TTTAGNCCT TCTAAAGGTT AACCCCTAACT TTGATTAT

SEQ ID NO:1444: (Length of Sequence = 208 Nucleotides)

GGAAGTGAAT CACAGGGCCA AAGCCCCCTT TNCCTCACTG GAAGCAACTC AGTAAGATGG CCGTGCAGTG AAGCCTATTC
CCACACACCT CGGCACTGAT GGAGCAGTCT CCAAAGGAAG GCTGAAAGGA CAGCAGGTGG TTGCCTTINGG GTCCTTCCTT
CCCATANCTT TAGAGTGCCA TTTTTCAGCA ATGGGTAATA GCATCAAC

SEQ ID NO:1445: (Length of Sequence = 239 Nucleotides)

CCCCGGTCTC TNGGACACCA TTTTCTGCCG CTGGACGCAA GGGTTTGTGT TTAGAGAATC AGAGGGATCT GCATTAGAAC
AGTTTGAAGG TGGCCCCGTG NCTGTTATG CACCTGTCNA GGCATTTCTT TTGAAGAAGC TCCTGTTTTT TCGGAGAAG
TCTTCTINGC GGGATTTTTC AGAGGANGAG CAGAAGGNAC TCCTTTGTCA TACCTTGTGT GATATTTTAG AAAGTGCTT

SEQ ID NO:1446: (Length of Sequence = 243 Nucleotides)

TGCAGGGAAT TTNTTGATGC AAAACCAGGA AACAAATTAT CTCCTCTGGG AATACTTTGA AGAAGGGATT AGAGCGGGGC
TAGGGCAGGG AGGATCTNTA AAAACAATA TTGCCAAAC TAAAAACACA TAGGCACACA TGGGNATTAT TTTACTTTCA
ACAAGTCTG AAAGTAGTAA CAAAACCAGG GAGAGTTAAA AGAATAATTT AACACTNAG NTTCAGGAAT GCTAAAGGAG
ACC

SEQ ID NO:1447: (Length of Sequence = 371 Nucleotides)

AGTTATAAAT GAACATCTGT TGCCTACTTA ATAGGTCAAT GAGTAGCTGT GACCCATTCT TAATTTGTAT GTAAGCATAT
TTTTTACATA TTTGTATCTA CTTCATTTTC CCTTGAAGCT TGCCAAATTG GTTACTTCA GTTTGAAGTG ATGTCCTTA
TATGCTGTAC CACCTTCTTA AAAATTGAAT TATCTTTTCT TCCACCTAGA TTGTCTCAA AGCATTTGTT TTTGCTGGAC
TTTCCACTCT TGACCATAAG ATGGTAGCAT TCCCTAAGGA TATTGCAGCA CAGTCTAATT CCACTGGTTG TCATCTACAG
TTAAATCGCA AATAAAAAAT AATAATAAGC AGCAACTGAT TGCTCAAGTT G

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SEQ ID NO:1448: (Length of Sequence = 366 Nucleotides)

AATTTTGTGT CCTGTAGGAA ATGCTTCCTT GGGTGTGTTT ATTATAGCCC AATCCAAGTC ATCCCTGAGA ACATCCCCAG
 GTTGTAAAGGA TTAGTCAGAA GTCATGATGA CTGTCTATA TAAATATTTG GCCTATTAAAC TAAAATTAGT ACCTTNCAT
 TTCTCCNCIT TCTTGGGCGG GGCAGCGGGG GAGTGCAGGG GAGGGGAAAT AGGGAACGTN CAATTGINTT TTAAGTAATG
 CTCATAAAAT TCTTAGNCAA AGATGATCTT GCCCTCCACC TTGTGACCC ACCGCATACG GGTACATCT ATCTGGCCTG
 TCTCTAGGCC TAGACAGAAG GAACAGGGAG GGTATTGTT AACTTT

SEQ ID NO:1449: (Length of Sequence = 234 Nucleotides)

GTGTGGGAG GGACCCGGT GGAGGTAAC GAATCATAGG AGCAGTTTCC CCCATGCAGC TGTCNGATA GTNAGTTTCT
 CATGAGATCT GCTGGTTTTA TAAGCTTCTA GTGTTTCCCC TGCTGGCACT CATCTCTCTT CCTGCCACCC TGTAAGAGG
 TGCCCTCTGC CATGATTGTA AGTTTCTGA GGCTTNCCTA GCCATGCAA ACTGTGAGTC AATTAAACCT CTTT

SEQ ID NO:1450: (Length of Sequence = 220 Nucleotides)

GCTTTTNC TCCTGTGTTT GTTTGTAACT CTAAGGAAGC AGAGCCTCTG AGACCACACA CAGCAGCGTC GCCCGTCCCC
 AGAGGCACCC CGGCCAGGAC GGGCAGGAGA GGAGACCCCC GTTCTGTCAT GCNCTGTGCG CCCGCCACGG TGTCTCCCG
 AGGGTGAGGC AGGAGGGTGG GTGGAGGCGC CACTGNTCCT CAGCTGGAAG GGCGGGGCAT

SEQ ID NO:1451: (Length of Sequence = 403 Nucleotides)

CCGCTGTCA CCTACGGCT GATTAACTT GCCTTCCTGT CCTCAAGAC CAGATGATGA TTATTCTCCA CCGTCTAAGA
 GACCAAAGGC CAATGAGCTA CCGCAGCCAC CAGTCCCGGA ACCCGCCAAT GCTGGGAAGC GGAAAGTGAG GGAGTTCAAC
 TTCAGAAAT GGAATGCTCG CATCACTGAT CTACGTAAAC AAGTGAAGA ATTGTTGAA AGGAAATATG CTCAGCCAT
 AAAAGCCAAA GGTCCGGTGA CGATCCGTA CCCTCTTTTC TAGTCTCATG TTGAAGATCT TTATGTAGAA GGACTTCCTG
 AAGGAATTCC TTTTAGAAG CCATCTACTT ACGGAATTCC TCGNCTGGAG AGGATAATTAC TTGCAAAGGG AAAGGATTCC
 TTT

SEQ ID NO:1452: (Length of Sequence = 353 Nucleotides)

TGCCTAGAGA GGGGCCGGGA TTTAGAGAGC TGTTCTTCTG CCTATCTGAT CGCCTCTCTA GACACTGATC TATTAGTCTA
 GTGCTGCAAT TACTTGGATT GTAATGTTTC CTGCAATTT TTGCTTTTCA AATTCTTTTC ACCCTAACT GTAAATACGC
 CAGGAGTAGG TAAAACTTA CAGGTAAACA TTGCCAAGAN ATAAGGATTT TNAITCTTTC TGCTCAGTGG CATAACTCAA
 ATCACATGAG ATAGATTTCT TTGCATCTGT CCATGTATT TCTCTGAGGC TAATTTACAG CACTTTGTCA CGTTAGGNAT
 TTTTTTTCCC CAGTGTCTCT ACTCTCCAAC TGG

SEQ ID NO:1453: (Length of Sequence = 258 Nucleotides)

GTGCCCCIN CTGTCTTTCT GINACCCAGA GAAAGCTTCA CAAGCATGCC TGNAAATNAG TTGCACCAIT TTATTACAGC
 TGAAAGANTT GANTGTAAAG AAGGAAGTTT AATAGANCAT ATAAINCAGC AGATTATTG ATGGGGAGGT ATCTATTGTA
 GTTTGGCCAG TGAAGGCAGG TCATAGAGGA AAATTAGGT AAGTCGGATT TNCITTAATA AGAGGCCCAA GAGTTAGTAC
 CTCAGGATTT TGTTTTCT

SEQ ID NO:1454: (Length of Sequence = 328 Nucleotides)

GAGATGGAGT CTGTCTCTGT CGCCCAGGCT GGGGTGCAGT GGCGCGATCT CTGCTCACTG CAAGCCCCGC CTCCCAGGTT
 CAGGCCATTC TCCTGCTCA GCCTCCGAG TAGCTGGGAC TACAGGCGCC TGGCACCAG NCCAGCTAAT TTTTGTATT

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TTTGGTGGAG ACGGGGTTTC ACCGTGTTAG CCAGGATGGT CTCGATCTCC CGACCTCATG ACCTGCCCCG CTCGGNCTCC
CAAATTGCTG GGATTACAGG CGTNACAACC GCGCCCGGCC GGTAGCAATA GTTTTAATTA AGGTCTTAAA ATCATACAAA
AAGGAATT

SEQ ID NO:1455: (Length of Sequence = 342 Nucleotides)

AAATTTAGGTA GATTAGCAAT CCCATGTAAC TTACCAGAAT CAGAATGAGA ATTCAGAAGT CACCTGANIT GGCCGGGCAT
GGTGGCTCAC ACCTGTAATC CCAGCACCTT GGGAGGCCAA GGCAGGCAGA TCATCTGAGG TCAGGAGTTC GAGACCAGCC
TGGCCAACAT AGTGAAATCC CGCCCTACT AAAAATACAA AAAATTAGCC AGGCACCCTG TCCACAGCCC CCACACAGAC
TCGAGGGGCC CCCATCTCCT GTTCTGAACC CAACAGGGTG GTCCCACTNT GGGACCACAA ACCAGGTATG ACTGTTTNAG
AAGCAGGCTC ACTACCAGN TA

SEQ ID NO:1456: (Length of Sequence = 296 Nucleotides)

ATCTTTGACC TATTAGGTGA ACAAATGAAC CTCACAGGAC ACACAGTATT TTTTAAAGGC AGACTCGCTC TCTTTTTTGC
CAGTNAGCAG TTCTAGCTAA CCAAGTTACA CACTGTGGGT ATTCTGCCT GCCTCTTGAA TACAAAGGCC TAGTTCAGT
GTGCTTTTT TNATTTCAA TCAATTTTT CTTCCTTCCT TTTTGAGATA AAATATTAA AAGTACTACT ATATATATAA
AANCTCAAAT CAACTTTTCG GCCTCCTCCT CGTGTACCAG GGAGTATATT CTGACC

SEQ ID NO:1457: (Length of Sequence = 314 Nucleotides)

GAGGATTCAT AAGTAGAATT TATAAAGAAC TCCAAAGAAT CAATAACAA AAGACTGGCT ATGGCCTTCG NAGAGCAGCT
GCTGTCTCG AAATCAGAGG ACAGTGAAG GAAGTCCGAA GATGAGCCTG ACACCATTC GACATCGTC CTCCTGCAGG
TGTGGAGCT GCTAGGAAAC TTCTTTNGGA CCAAGGACAT GGCAGCCTGC NTGAAGGAGC TTGTTTCCA TCTCTGGCA
GAGCTCTAC GCACGGTGCA CACCCTGGAG CAGAGGCGGC ACCCCGCTGG CCTGTNCTCC TCANTCGCCC TCCA

SEQ ID NO:1458: (Length of Sequence = 254 Nucleotides)

GTTCAGTCA CAGATGTTT ATTATCACTA TTCAATATTA TTAAGCATCT AATAAGTATA AGGATGCATG AGTCAAGGT
CCCTACCTTC AGGTGGAAG CAGGAAAGAG ACCAGATCCT AGAACAAATAG GACATGGTAC CCGCTGCCTA GACGGAATTT
AGAATCCGGC TGGGTGAAG AGATTAAATGA GCGAGTCATG CCATCAATGT GCTGTAACTG AGGTCTTAAA AACCACCCAG
CCGCGACACA AACT

SEQ ID NO:1459: (Length of Sequence = 343 Nucleotides)

AGAAAGGCTC AGGGATTAAAG TAAAAGGCT AGTACATCTG GGCTCCATTC CATTATTTAG TCATCCAAA GAAGTGAAGT
GGAGGATAGT GAGCATCTAG TATATGCCAG GCACTAGACT GGCTGCAGAG GATTCAGAGA TACAAAAAC ACACTTGTA
CCAATTTAAT TTGAATTTAC CAAGTTGAAT GGCAAAAATA TCTTAAAAAT TTAGATGCCT TGATAAATGT AGTGGTATAT
TATGATAGCC ATTCTATGCC TTGAGATACC GTGTATTCTA TATTGTATAG TTGAGGGATT GAGGCCAGTT GGGAGGAATA
AATTATAGCT TGTGCTTATC AGG

SEQ ID NO:1460: (Length of Sequence = 348 Nucleotides)

ATTGTCAACA GTGTTTTTAT TTATACCTAC AAAAAGAAAA CAAGATGATG GTATCAAAAG GACAATTTAC AAATAAGAA
TAGTAACATA GCTTCAGCA TCCTGTGCCT GANCAACACA CATCTACAAG TCTTTCAAGT CTTAATGCAA CAGGAATGTN
TCTGGAGACC NGCAAGAAC TCAATAGAGA GCACTGATCC CAAGCAAAAG CCACTAACCT TTAGATGAG AAGTCCNCAC
AACGNATTGT TAGGGAGGAT TTGGGAGAAG CAGCCCTTTT GCTTAATACA TTNGGACCCC TTCCCTTAA GTTGAGGTTC
AACCTTGAA TGCAATAACT TGGCATAA

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SEQ ID NO:1461: (Length of Sequence = 343 Nucleotides)

TGGGAAGATC AGGCTTACT TGTTTTCTG TCCCTCCAG CGCTAGATCA ACACAGTGT AAATTAGTGT AATTTCAGTG
 GAGGAGATAA GACAGAAATG AAATCTGTGA AGATTCAGAC TTTCCCAAGT TAAAACCAGT CTTGAGTTAC AGATCAAGAT
 GATGCCAGAA ATAACATCAC ACTGAAACAT CAGTCAAATG TAGTCATCAT GGCAAAGGCC AAATGTCCCT TTCTTTTTTT
 GCCTCCGCCT GCCTGGGAAT TTAGCATCCC CTAAAGCCAC TCATCTGGGA CAGGATTTTA GGGTGTGTAC ATGTTTTTCA
 ATCTCCACAG GACCCAGCTG TGT

SEQ ID NO:1462: (Length of Sequence = 335 Nucleotides)

GGCATGGAGC AGGCAATGAC TTGTCATAG TCGCTGCACT TATGAGCACC AGCTTGAACCT TAGGAACTCT TATAAATTC
 TGTTTTCAAC CAAGTATTGA GTGTCTGCTA TGTGTCAGAC ACTGCGCTAG GTGCTGAAAT CTCACTTCTA CTGAGGAAGA
 CAGGAACATA AATGGTGATG ATCATTGCAT TAGAAGTGAT GCCACGGGAA TAGTGTGGGG CCTCTCCAGG GGGATCTNAA
 GGTAGGGAGA CCACACTTCT CCACTGGTGG AGAGGGCAGA CAGCGTGTAT NGGGTCTCA AGGTCTNATT GCAAAGGTCA
 TGTTTTAGCT GTTCA

SEQ ID NO:1463: (Length of Sequence = 382 Nucleotides)

GGACCGCTTT CGGTTCTCA GGATAAACAC GAGCATGCCC ACCACGGTGA AGGCGGAGGT GACAAACACC AGCAGCAGTC
 CCGGACCAA CACCGAGATG GACACCCTGC TGGTGTCTAG GTAGGAGTGT GAGTGGCTCC CGGTCTCCGC CAACCCAGTG
 CTGTTTTTAC TGTGCGAAGT TAAGTGGGC GAGATCCTAG CGTACAGCTG AGGGCAGATC TCGTCATTGG AGAGGAGCAT
 GAAATCCTTT CTAAAGAAGT TCACCGCGT CTCACACTTN AGGTGCTCA TCAGCACTTC GGAACCCAAG CNTTCTGNCC
 ACTTGCTTGA AAGGCACAAT TGTCAGGAG CACTNCCAGG GGTTCCGTG GAGGGTCTAT CT

SEQ ID NO:1464: (Length of Sequence = 187 Nucleotides)

AANGACCTCA TTTCAAAGAA GAGCCGTCTC CTGACAAGGG ACGTTTCCA GAGAGGAGAC GTGTTAGTGC AACAAAGACC
 AGGCCCTGGN AGCCACGAAA GCCCTCCAGA TGCTTGAGG ACGCCGTCTN TAGCOGNGTG GGCCACGNCC GGGTGGGGAC
 AGACAATGAC AAGAGGCAAG ACAGCCG

SEQ ID NO:1465: (Length of Sequence = 276 Nucleotides)

TTTACACAAT CAGTATAATA CTGATAGGAA AACTTGACTG AGTTCAGAAA ANGAAAACGA AGTAGAGATC TCACTTGCACT
 CAGAACAAA TGTCAATCTA TTAGCAGATA ATATTTCATCA GTATTTTTTG AAAATACAAT ACCACANGAA AGAAACAGTG
 GACATTTGGA GGGCTTTGAG GCCTGTGGTG GAAAAGGAAT TATCTNCCG TAAANCTAG ATAGAAGCAT TCTCAGANAC
 TTGTTGTINA TGTGTGCCCT CTACTGACAG AGTTGA

SEQ ID NO:1466: (Length of Sequence = 375 Nucleotides)

GGGGTTTAC CATGTNCCC AGGCTGGGCT CAAGTGATCC ACCCTCCTTG GCTTCTCAA GTGCTGGGAC TACAGGTGTG
 AGCCACTGTG CCTGGCTGGT TTTNTTTTT TNAATGAACA TGTGCAAAT CACGCAGAGC ACCNTNATT CTGCATTNCC
 TGGGTATAA CAAACATTGT CATCTCTGCC TACATTAAAG AGGCTCTGGT GTTATTTTAA TATGCTTTT CAATTTAGTA
 ATTAATTCTA ATTTCTCTT GAGCTGAGAT GTTATTCAAT GTTCTCCTAG AGTTGCTTTT ATTTGTTCAT ATATGTTTCC
 CTTAGCATGT TTTTCGTATC TCTTAGTTAT TAGATACCTG AACATTTGAC ATTGG

SEQ ID NO:1467: (Length of Sequence = 319 Nucleotides)

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TGATAAAAGG AAAACGTTTT GATTTATAGT ACCAAGTGCT TAAACACAAG GATAGTGTTA GATTTTCGAG TGACTTTCCT
 TTTTGCAATT TTTGGCAGTA AAAGCCAAAC GTTGTATTGG TCCTTTTCAG AGTTGTCCAG CCCTTTTTTC CTTTGTCCAA
 AATGATTCTA AATAGAATCT AATAAACCA TGTAGCATT TTTTTTCTA AATGAAGCCC CAAAAAGAA AAGTGCCTTG
 CATCATTTAA AAAAATAAT TAAATCCTCA TGGCCTCTAA ATTAGGTATG TAGGGCACTG AAAAGTTCTT AACATTTTT

SEQ ID NO:1468: (Length of Sequence = 352 Nucleotides)

TTTGGTTAAC ATTCCAAACA TGTATAACCA ATTAACATGG CCTAGGGITT TCTTTTTATT GGTATTCAC TCACTAACTT
 GAATCCACAG ATATAAGCAG TATATAACCA GAAAGTTACA AGTAAACACA AATTATACAT GCAAATTTCT GTTCACAAAG
 GTCACATGTG CAGGTACATG ANTTAGAAGC GTGCATCTAG GATTATGGCC AAAGTGTCTT AAAAATGCAG AAATGTAAAA
 TTACATCTTG AAAATATGAA GAGATGGTCT ACACACTTCA AAAATCAAAT GTTGCTTATA CCAGAGATGT ATGTCAATCA
 CGGNTTCAA GTGACAAGCA GTAAGGATCC TC

SEQ ID NO:1469: (Length of Sequence = 427 Nucleotides)

GAGATGGAGT CTGTCTCTGT NACCCAGGCT AGAGTGCAGT GCGAGATCT CGGCTTACTG CAACCTCCGC CTCCTGGGTT
 CAAGTGATTC CCTGCTCTCA GCTCCCAAG TAGCTGGGAT TACAGGCGCC TGNCACCGCA CCCAGCTAAT TTTTGTATTT
 TNAGTAGAGA CGGGGCTTTA TCATCTTGGC CAGGCTGGCC TCCAACCTCT GACCATGTGA TTCACCTGCC TCCACCTCCC
 AAAGTGTCTG AATTACAGGT GTGAGTCACC ACACCGGCC GGATCTGTG AGTTTTCTTT AATGCATATT GAGTTTCTTT
 AGTTTTAACA CACTTAT CTGGTTTGA CCCAACTAT TCACTATGTT TCTTGGGGGA NAGCTTNGAA TCTTGGGGTG
 GNAGCCAATT AGTAATAGC CAGGGTG

SEQ ID NO:1470: (Length of Sequence = 426 Nucleotides)

AGAGATTTGA GACCATCTG GCAACANAG GAAACCCCG TCTCTACAAA AAGAAAATTT GGTITTNATA TTTATTTGTA
 TTAAATTTTT TAGAAACATA GCTGGGCATG GTGGCACAG CCGTAGTCC TAGCTACTCA GGGGGCTGAG GTGGGAGGAT
 TGCTTGAGCC CAGGAAGTTG AGGCTGCATT AAGTTTGAT CACACCACTG TNCCTCAGCC TGGGTGACAG AGTGAGACCC
 TCGACTCCA GACAGGTGCA CACCACCACA CTCAGCTAAT TTTTGTAGA AATGAGGTCT CACTATGTTG CCCAGGTTGG
 TCTTGAACTC CCGGGCTCAA GTGATCCACC TGCTCAGCC TCTCAAAGTG CTGGGATTAC AGGCATGAGT CACAGTGCCT
 GGGCCCAAT TCATAGTCTT AACAT

SEQ ID NO:1471: (Length of Sequence = 372 Nucleotides)

AGAATATTAA AAAAGACCAG ACGCTTAAAG CAAGANTTGA AATACCTAGT TGTAAAGATG TGGCACCTGT GGAGAAGACT
 ATTAAGTTGC TTCCAGTAG CCATGTTGCA AGACTACAAA TATTCAGTGT AGAAGGACAA AAGGCAATTC AGATCAAACA
 TCAGGATGAG GTTAATTGGA TAGCGGGTGA TATTATGCAT AANCTTATTT TTCAAATGTA TGATGAAGGA GAAAGAGAAA
 TCAATATAAC ATCAGCTTTA GCAGAAAAAA TTAAAGTTAA TTGGACTCCT NAGGTTAACA AAGAACACTT GCTACAGGGT
 CTGCTTCCTG ATGTGCAAGT ACCNACATCT GTAAAAGATA TNCCTATTT CC

SEQ ID NO:1472: (Length of Sequence = 332 Nucleotides)

GGTAGAGACA GGGTCTCACC CTGTGCTCA GGCTGGTCTC AAATCCTGG GCTCAAGCNA TCCTTTCACC TTGGCCTTCC
 AAAGTNTAG AACTGGCCAG GGTGGTGGC TCATGCCTGT AATCCAGCA CTTTNGGAGG CAGAGCGGG CAGGGAGTTT
 AAGACCAGCC TGGCCAACAC GGTGAACCCA CTCCTACCA AAANTACAAA ATTTAGCTGG ATGTGGTGGT GGGCGCTCT
 AATCCAGCC ACTCAGGAG CTGAGGCAGG AGANTCACTT GANCCCGGA GCGGAGGTT GCAATGAGCA GAGACGGCT
 GGACGACAGA GT

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SEQ ID NO:1473: (Length of Sequence = 434 Nucleotides)

GCCTTTAATT TGGTTTINCT ATGCCAGTAC AGAAACATCT GGACAACACT CTTGAGCCTG CAGAGGCTCA CGGCCACACC
 CACTTCTGCC GCAGGACTGT CTGTTGAGGA GCCGAACCGA TGAGGCACAG TAGCCAGGCC CTCCGAGGG CTCCAGAAGC
 TCTAGGTTTA CGGGGTCACC TTCTGTAGG TGACGTGAAG ATGCTGAGTC ATTGGCTGTN TCGTGGTTGC CATGGAGACC
 GTCTGCTCAA GTTTGCCTTC AGAATTCAGC CTGAACCTCC GGGTGATCTG CTCTACGTGG GGCTCCTTGG CGAAGGAGAT
 CCTGGCGATG GAGTGGGATG CGATGCACAG NTCCGTGCCG TTCAACTCGC CCTCCTNCAC TTCCANCAC GGCTGTTTTT
 TTGGCGTGAC AAAAGGCCAC CTTTTTGGTG TCGG

SEQ ID NO:1474: (Length of Sequence = 402 Nucleotides)

GACGTTNAGG TGGGAGGTTT GTTTGAGCAA CATAGTGAGA CCCGCTCTCT ACACAAAAAC AAAAAAATA AAAAATTATC
 TGAGCATAGT GGAGCATGGC TATGTTCCAA GCTAOSTGGG AGGCTGAGGT GGGAGGATTG CTTCNTCCA GGAGTTCAAG
 GCTGCAGTAA GCAGTAATGG TGCTACTTCG CTTCAGCCTG GGCGACAGAG CAAGACCCTG TCTCGAAAAA ATAAATAAAG
 TAAATAAGT TGAGAATTTT GTATTTTGGT ACAGAAGGTC TATGCCCTTN AAATGCTCCA TTTGACACG CTTAGGGCAG
 GACGCTCTGA AACTGGGAAG CCTGGGGCCC TGTACANTCT TGGCTGTCCC CTGTACANTC TCCTAACTCT AGAGGGCTGG
 TT

SEQ ID NO:1475: (Length of Sequence = 324 Nucleotides)

TTGCATACCT GTGCTGTGTC AGACCAGGCA GAGTCATCTC ATTCCACTGG TCTAATGGAT GGCAATTGAA TTTAATTAAAC
 AAAACTCCTT TGACTTAGTT TCATACTGTG CTGAATGTAA TGAATCCTC TCTGCCCCC TTATCTCTCT CTCCTTCACT
 CTCCTCAAC TAAAAATTGT CCTTAATAA CATCCACTTT AAGAATATTA AAGGCTATAC ATTATACTTA AAAGATACAA
 TACAGTCATC CCCCTTTCCA TGACTTAAAT TGTATAACAT AAAATAATTA AAAAGNTACT TTGGATAGTG ATACACAGTA
 TAGG

SEQ ID NO:1476: (Length of Sequence = 244 Nucleotides)

GA AAAACCAG AAAC TCAAGT GCC TCTCTCTC CAAAGGAACA CAGCTCTCA CCAGCAACGG NACAAAGCTG
 GACAGAGAAT GACTTTGACA AATTGAGAGA GGAAGGCTTC AGAAGATCAA ACTACTCTGA GCTAAAGGAG GAAGTTTGAA
 CCNATGGCAA AGAAGTTAAA AACTTTGAAA AAAAATINGA CGGATNGATA ACTAGNATAA CCGATGCAGA GAAGTCCTTA
 AAGG

SEQ ID NO:1477: (Length of Sequence = 338 Nucleotides)

ACAACACATA CTGAAACTG ATTATGACTG TTTTGAATG CATTTTGATT CCTTAGCTAT GCCTCTCAGG TGAAAGGACC
 AATGGCAAGA GGAAGCAGAG GATTCATGCA CTAGAAAATA CTGAGAGAGA TCAGAGTATT CTGTCTACTT CACTGAAGAT
 ATGGTCTATT GAGGGAAAAC TAATTACAG TTGATCCAAG GAACAAAAGA ATGCTGTAT GTGACATTTT GTTGGGAAAC
 TGACTGTAAT AATAATAAAN CAAATGTCCA GAGGAATGTG TCACATAATT NCAGTGTTTA TGGTTGATAA TTCAAAGGCA
 TAGATGAATT GGGATTCT

SEQ ID NO:1478: (Length of Sequence = 397 Nucleotides)

ACCCTTTCCC ATTCTGATAA TCTGGCCATG ACTAGCAGAA GCACAGCTAG GCCCAATGGG CAACCCAGG CCAGCAAAAT
 TTGCCAGTTC AAATTGGTCC TGCTGGGAGA ATCTGCAGTG GGAAAGTCAA GCCTGGTATT ACGTTTGTG AAAGGGCAGT
 TCCATGAGTA CCAGGAGAGC ACCATTGGAG CGGCCTTCT CACCCAGTCC GTTTGINTAG ATGACACAAC AGTGAAGTTT
 GAGATCTGGG ACACAGCTGG GCAGGAGCGA TATCACAGCT TAGCCCCCAT GGTACTACAG GGGTGCCCA GCTNCAATCG

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TGGGTTTACG ACATTACTAA TCAGGGAAAC CTTTGGCCCG AGCAAAGACA TGGGGTGAAG GGA CTACAGC GACAGGC

SEQ ID NO:1479: (Length of Sequence = 389 Nucleotides)

GCTAGAGNGC CGGCTTGCGG GGTGAGTGG CCGAGCTAA GGGTGCGGAG ACCCAAGGGC GCGACTACG ACGGCGTTGA
TATCGGTGGT AACGACGGCC TCAGCAGCGG GGAAGATGA AAGGCGGNT CGAGCTGGGA GATGTGACAC CACACAATAT
TAANCAGTTG AAAAGATTGA NTCAGGTCAT CTTCCAGTC AGCTACAATG ACAAGTTCTA CAAGGATGTN CTGGAGGTTG
GCGAGCTAGC AAAACTTGCC TATTTCAATG ATATTNCTGT AGGTGCAGTA TGCTGTAGGG TGGATCATTG ACAGAATCAG
AAGAGACTTT ACATCATGGA CACTAGGGAT GTNTGGGCAC CTTACCGAAG CTAGGAATAG GGA CTAAAT

SEQ ID NO:1480: (Length of Sequence = 384 Nucleotides)

CTGAGAGCCA GGAGCTCTTG CGGAGAAGCC ACTGTCGCA CGCCACCTGC TTCGATGACC CTGCTCTGCC ATCCCTGTGC
TCCAAGGGCC GGGCCCTGCC GTTGCTGTG CCAGACGGT CTCAGGGAGA TGCCGCCAG CAGGTATGCA TGGCGAGGCC
TGGGCATCAA GGCCCGGATT CTATGGCTGC CAGTTTCATT CTCTCGTTGT TTGTCCCCCT AGCAAGACTT ATGAGGTTCC
TTGAGGACAA GACTCCCTCC TGCCACCTGG TCTGTTTCCT GAACATTCAC TGCACTAGCA CGGNCCGGG ACGCAGNCT
TGGGAATCAG GCCGTCGGCC ATGGTAGAGC GGCTNGCACT GCTCGGCACC GTGACGGACG TTTG

SEQ ID NO:1481: (Length of Sequence = 257 Nucleotides)

ATGTCAGAG CTATTCTGTT TTCCAAGCC ATTTGGCTAG TAGGCCCTAA TTGGTCAGTG GGTTCGTACC CCCCATCCC
TACCTCAGCA GCAGGAAAGG GAAGTCTGG TCTCCACCTG TNCCTACTAA GGCCCGTGG TATCCTGGCA GAAGCCTCTG
CATGTATCTN CGCTCTGAGG ATGGGGGTTT NAAAACAAA TAAGACCCTA CGTCTACTA CCTTGAGCTT GGCTCTAAAA
CCACGGGAAA GGAAGAG

SEQ ID NO:1482: (Length of Sequence = 345 Nucleotides)

AATTGAGCTC AGACTAAAGG AATTCTTTT TGACTAAATA GTGATTAAGT TATGATATTC CTGTTGGCCT AAGAACAATG
CCTATGATTT AGTTGTGTTA TGTATATTTG TACTTATAAC CAAACAATCG ATTGGGTACA AGTAGCCTTA GGGCAATACT
TCCTTAAAAA CATGTTTCTG ATAACTAAA GCTTTAGCAT TAACCAGAAG TCATAATTTA ATAGTATGT AAAAATACCT
CAITTTATTTT AAATCCTGTG TTGGGTAGA GGATTACAGT TGTCAATTCA AATACATGAA TCTCTTGCA AAAGNGGTAC
TTTGACAGTT TCATGGGAGG TCAGG

SEQ ID NO:1483: (Length of Sequence = 344 Nucleotides)

CTGATGTACT GTTTTAATAT GCTGAGTACT GTTGATTCAA CAACAACTT TAATGGGTGA TGAGCTTTTG CATACCAATA
TGAATTTTNC AGCACTTCTG AAAACTGGCC ATCAITTTNC AAATTCACAA TTGCTGGAT GTCAGGGAAC AATAGGAAGA
AGAATGAGCG TCAATTTTCA TGCTTCCTT TGCTTCTTCA CTGGCCTTCC ATAGAAGTAG TCAGAAAAAA ACAAGCACC
ATCAACCACA CTTCAAAAC AATTCATGTT GGCTAAGCT TTGCTCAACA TTCATATGAC AGAAGGTAGN ATAATGAAAA
GGGACTGCTG GGCATCACTT TCCC

SEQ ID NO:1484: (Length of Sequence = 380 Nucleotides)

TTCTTAAAG CAGTCTTTCC TACAATGTG ATGCAGTAAG TCACTTAAGC ACTTAAGTGT CATATGGGTA CTTACATGGA
ATTAGAGCAC TTCCTGAATG GAATTAGAAA AAGGCAAAT GTGCATACTA CTGATGCATT CATTTCCTAC AGAGATATGA
TACCAAGGGC CAATAAGTGA ATAGAAAAAG GGAGGAGGAT TTATTAATGG AATGAGTTCT AACCTGTCT CTTACCAGCC
ATATGACTTT GGGNTAAATA ATCAAACGCC CAATGAGCTC AACTGTCTAT TATTAGGGGA ATTTAAATGA GAGAATGCAC
ATTAATTATG CATTGCAGAG TACATGGGAA AATAGTAAAA GCTTAATATT TAATACGGTC

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SEQ ID NO:1485: (Length of Sequence = 334 Nucleotides)

GAAGGAGCGG GGAACCAATT TCTCACTCTC CTCCCACTTG CTATTGTGAG AAGAGCGAGA TTTCAGGGCA GCAGAGAGCA
TCAGGAGATC AAAAGAAGAC ACTGCTGGGT GGTCCCTTAG CAAGTTTTAG CTCTTTTNC TGCTGGGAGA GTATTCCCTG
GGCACAGTGC CAAGTGTCTC TAAGAACTA GTCATGCCCTG ANCTTAAGGG CTGCGGGAIT CTGGGTGGTG GATTTCCTTA
GGCTTGCTG AGCCTGCCAG TGCTCTCCTC TGTCGCTCTG ATTTCCATT CCGCTGAGCA GTCTGCACTN CCTTGGACAG
ACCCACTGGC ATTT

SEQ ID NO:1486: (Length of Sequence = 164 Nucleotides)

CTGAAACGGA AAGATGGCGC TGCTGINCTT CTAAGCCTAG GCTTCTTGCA CTAAAGCACC AAGGGCATCG CACACAGGCT
TGCGAGAGGG GCCATGGCCA GANTCACCAC CTTGAGACAA GTATGTTGGA GGTCTCGAAT CCCTTGGCAC CCCCAGCAT
GCAG

SEQ ID NO:1487: (Length of Sequence = 298 Nucleotides)

TTGAACCCAG GGGGCAGAGA TTGCAGTGAG CCGAGATCGT NCTGCTGTAC TCCAGCCTGG GCAACAGAGC GAGACTCCAT
TTCAAAAACG AGAACCCAGA GGGCTCACTT GCCCCTTCCA CCACACAGTG AGAAGGCACC ATCTATGAGC CAGGAAGCGG
GCCCTCACCT AACAGGATCT NCTGGGCCCT GACCCAGGNC TTTACAACCT CTAGANCCAT GAAAAATTC TGTTGTCTCT
AGCAGNCCAA ACAGAATTAG AACCATTAAAT TTCTATTTCT CTTTAGCTT AACACTGG

SEQ ID NO:1488: (Length of Sequence = 343 Nucleotides)

TTGCTAGTTC AGGNTCAATG TCATGGCTGT AACTAATATA GTACATTCCG CAGTTGCAAC GCGAAATGAT CCGCTGGACT
TGCTGGGCTT GCTGTGCTC ANCTGGCTGG TTCCAATCTG TGGTTGTTGT AACCATGCCG CCCACTGCCT GCCCACTCTC
CATCAGCTCC TGCACAGAGT CCAGACTACG CTGCCGGTGC TGCTCTTTT GCCCAGGTG AAGTGCAGTG GCGCAATCTC
AGCTCACTGC AACCTCCGCC TNCGGGTTC AAGCAATTNT CCCCACCTCA GCCTTNCAG TAGCTGGGAT GACAGGCGGC
CGCCACAACG GCCAATAAT TTT

SEQ ID NO:1489: (Length of Sequence = 412 Nucleotides)

ATTACCTTTT TATAACCCAA GANTGCCATT ATTACACCG GAACCTCAC CAAATAAGTA GGAAACTAC ACTGAGAACA
ATTGGGCCCA GCTGTCTCTG GCCCATTTCC CTCTTACCG CCTCTTGRG ATTCCAGCAA TCTAATCGA TGAATGATCT
TCCAGTTGGA AAGATGGGGA CTTACAATG TGCAGACCA AAGATCTGTC TTCCAAAGGC CAATCACCAC TGTATCCTTC
GTTCCTTTAA ATGTGTTGT TTATTTGAAT ATATTAAGGA ATAATATCAA GGGTAATTAT CTATGTATAA AATGTATGNT
TAATTTTTTA GGGGACCATC ATACTGTTTT TCCACAGTGG CTGTACATT TACAATTCCC ACCAACAATG CACAGGGTTC
CATGGTTCTT AT

SEQ ID NO:1490: (Length of Sequence = 356 Nucleotides)

ATACCTTCTT TCATTTAAGC CACCCAGTCT ATGGTACTTC GTATGGCAG CCTTAGCAAA CTAAATACGA TTCTCATCA
GGTTCAGATT TTNCTAAATA AAATGTGTT GTGAGGGTGG TACAAGCAAC AGTGATATAT TTCTTTAAGT ATTTTCCCCC
AGCCAAATTC CAACAAGACA ATAATGTCTA ATGCACTGTC TGGTGAATCG GAAAATCTCC TGAATGAAAT AAGAGCTCT
AATACCCAAA AGGGAATGAA GTGAGTCATC ACCACAGCCT GTGAATGAAA ATAAGTCTC TGAGGAAAAC ACATGTAAAA
AATGACACCA TGTGGATTAA ATGGGGNAC ACAAGT

SEQ ID NO:1491: (Length of Sequence = 335 Nucleotides)

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TTCACTACCA AAACCAGTTA CAACAGTTCC AGCCAAATAA CACAGGCTAC CCCATATGCC ACGACACAGA TCTTGCAATC
 CAACAGCATA CATGANTTGG CTGTGGTCT GCGTGATCCN CAATGGAAAA GCTCAATTCA GCAAAAAACA GATCTGNTGG
 GATTTGTTA TTCTCTACCT GATCAGAACA AAGGTAACAN TGCCTTACTT TACATTCTCG ACTACCGNTT GGCTGAGGGA
 TTGINTAATA GAATGCCACA NAACCAGTCT NAGGATTTTA GCANCCACCA GCTCTNACAA CAGCTCAGGA AGGAGTTGGC
 AGINTCTCAG GTGGG

SEQ ID NO:1492: (Length of Sequence = 321 Nucleotides)

GACTTCATAA AACATCCTTT ACTATATTTT NAAAGAAAGC AGAAGTAACA GCAATATATG TAAAAGTAAT GNTTTAATGN
 CTATAAGCAA GNCAAAGCAA TAGAATTGTG CTCTTTTTCG AGACTGGGN CAATGAAATG TTTAGCTACA ATTTNCCCAT
 ACAACATGA AACAATATTC ATATAGNNTA ANCACCCTCA CAAATAACTG ATGGGTGATG ANCACACACC AAGTTCGACC
 AAAGCAAAAA NTAAACTGAA AATTGTTGGG TGGGGTTATT CATATTTTAA ATTCAACATG CTGCTCTAT TAAAAATAC
 C

SEQ ID NO:1493: (Length of Sequence = 315 Nucleotides)

GACGGAGCGA GGGGACAGAG CCCAGGGATG GAGGCGGGAT GCGGGGACA GAGCCAGGG ATGGAGGCGG GATGCGGGGG
 AGCAGCTGGT AATGTGCAGA GACTGGGAGA GGGCGGTGTC CAGGTGGAGA GTATTTCAG GAAGAGAAGG ATTAACAGCG
 TCCACTGCCG CAGATGGGCC AANCNGAGT GGGACTGGAA ACCAACCCT GCAATTAGCA TCCTGGGNC TGCTNATAAC
 CTGTTTGA TGGCTCTCA AGAAGAGCCA NAACCTTNA AAGTTAGTTC AAGAGAGAAG GGGNGAAGAG AACT

SEQ ID NO:1494: (Length of Sequence = 405 Nucleotides)

AAAAGTTGAC AAAACATAAA GTATCTCTAG ACAGCAAGGA AATAATTICA CGAGATGCT AAATTGATGT CAACACCTGC
 AGTCTAAAT TTATACAGTT CAATATGTGT CATTGATCA CTGGCATGTC AAATATAGAA CAGCTATGAC TTTGCTGGCC
 AGTAAATTAT CTAGCAGTGA AAATCACTTT TTAGGAGAGT CGCAATCAAA CATTGTTTAA CGTGGGAGCC TATAAAGATG
 CAAATTCCTG AACAACAGTG TCTAAGAAAA GTACATTGGG TCACTCTGAA CAGGTGGTAT GAACATTGA TTTAACTGCA
 AGATCTNCNG CTNTTACGG GCTTTGTCAC CATCGNATGA ATCTTACATC CGCTGATGAC TNAGAGCAAG CAGGGGCGAG
 CTGCC

SEQ ID NO:1495: (Length of Sequence = 364 Nucleotides)

CGTCTAATGA AGAGCTTCGA AACTTGICTT TGTCTGGCCA TGTGGGATTT GACAGCCTCC CTGACCAGCT GGTCAACAAG
 TCTACTTCTC AAGGATTCTG TTCAACATC CTTTGTGTG GTGAGACAGG CATTGGCAAA TCCACGTTAA TGGACACTTT
 GTTCAACACC AAATTTGAAA GTGACCCAGC TACTCACAAT GAACCAGGTG TTCGGTTAAA AGCCAGAAGT TATGAGCTTC
 AGGAAAGCAA TGTACGGCTG AAGTTAACCA TTGTTGACAC CGTGGGATTT GGAGACCAGN TAAATAAAGA TGACAGCTAT
 AAGCCGNTAG TAGGNTATAT TGATGCCAG TTCGAGNCT ACCT

SEQ ID NO:1496: (Length of Sequence = 370 Nucleotides)

GTCTCTTGA GCAAGGACCC AGTTATTCAT CTAAATTCTC AGGGGAATCT CTGTAGAGAT GAAAAGCAGG AGAACCAAGG
 CAGCTGGTC TCCCTGGGTG ATGAAAAACA GACTAAGAGC AGGGACTTGC CTCCAGCTGA GGAGCTTCCA GAAAAGGAGC
 ATGGGAAGAT ATCGTGCCAC CTGAGAGAAG ACATTGCCCA GATTCTTACA TGTGCAGAAG CTGGTGAACA GGAGGGCAGG
 CTACAAAGAA AGCAGAAAAA TNCCACAGGA GGGAGGCGGC ACATCTNCCA TGAATNTGGA AAGAGTTTIN CTCAAAGCTC
 AGGCCTTAGT AAACACAGGA GNATNCACAC TGGTGAGAAA CCTACGGAT

SEQ ID NO:1497: (Length of Sequence = 376 Nucleotides)

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CACACACATA CAAAATCTGT CCATTGCGG GAGNAATNTG TATGTATGTN AGTTGGAGGG TATTAAAAAT CAGTTTTATT
 CCAAAGATTT AAAACTAGAC ATGACTTAAA AACAAATTTCT GGAGCACTGC TTGCTGACAA TCTCGTAGTT CTCTGCTGCA
 TTTGAGTGCA TTTTGTGGCC AGTCCATCAG GGGGTACCAT GGGATTATAT TTGAATGTGT GGTGCATCCT TCCTGGATGA
 AGGATGTGTG AGGGACCTTG AACCTCAGCT GTATTAACT GTAGCGCTC CAGTCAGTGC ACTAGATGAA ACTTTTAGAC
 ANCCTGAATT CTGTGGGTC CTTCTTTTTT CCTTTATGTA GGCAGNCTNC AGCATG

SEQ ID NO:1498: (Length of Sequence = 281 Nucleotides)

TTTATAGGAC TTCTAATCTA ATTTNCTTAT AGTGTGACTA AAAGGGAGGC AAATTATTGG AACGGATTAT TCAAATGGNT
 CCTTAAATAT TGCTATGTAT AATAAGCCAG TTATTATATC AGGACCATGT TCTCTGTAGG CCACTGTTTT NTCTCTCAT
 TCTCCAGTGG CGGCGCGGG GAAGGCGGAG GCAGAGGCAG CAGCAGCCGC GCTGGCTGCA AATGAATGAN CCCCCAGCTT
 GGGGGGAGGA CTCCAGGTGA GCCTCTGCCC TGGGGAGGCC C

SEQ ID NO:1499: (Length of Sequence = 395 Nucleotides)

TTTTATCACA CCCGTTTTC CAAGGGTCTT GTTACGTACC ATTCAACATT CTGCTTAGCA ATGGCTTGTG AGATGGCATT
 TATTCCTTCA GCATGTATTT TNATGTTTAC CTTCCTCTCA CCTAAATTCC TCCCCACCC CAATAACAAT TAGTTGTCTT
 ATTGTCATGT AGCCAGAGCA AAAAATGATT TCTTTCCCTT AAGTTACTAT TATTATAAAA GGGACGATAA ACACATGAGT
 CATTATACCA CAAGTATAGT GTGGAAAGGA CTCTAAACAT AGGCTCACTG AAGAAGGTGG CATTGCGGCC AGGGCTCAAA
 ATAAGGCAGA TTCAGATTG AACTGAATAG ATGAGGAGT CATTTCAAAC AGAAGGAATG NCATAACATG TGGAG

SEQ ID NO:1500: (Length of Sequence = 272 Nucleotides)

CTGAGTAAGN GTTCCAGTC GGTCCACTG GTCACAAATT TTTTGGCACC GATCATTGAC ATTCACAGCG TCGTGATAGT
 CCAGTTCATT GAGCTTCTGC GCGATGGCTG CGATCTGCTC CACGCGGTCC TGGTGGCTG CCAGGTGCT CTGGAACGNC
 TCGTGCTTCC GCAGCAGAGC CCGNACCTCT NINAGCGACG CCGACTCGTA ATCCTTNTGC AGCAAGATCT GCTCTTTGCC
 ATAAGCCCAA GTCTCGTGGC TTGAGGCCCT CT

SEQ ID NO:1501: (Length of Sequence = 394 Nucleotides)

TTTTTTTTCC TGGACCTGTC ACAAGCTTTA TTGTCCCGAG CACAGACTCG CCACACTTCA ACAATTCAC TGTGGGGAGG
 GGAGGGGTGA ATGAAGGACC TGGGGAGGGG ACATGGCTGA GCCACANCOG GGGCGCCACA CGGGCGGGC TGAGAGGCCC
 ACGGAGGCAG AAGCTCCCAA GGAAACCGCT TCTTGACAC CCGTCACCAG GAGCCACCT CCGGGGGCTC AGNTCCTCCC
 GGCACCTTCC TAGATGGACC TCTGGCTGTT AGTAGACTAA TCGGTGCCCC TACCGATGGG GCAGAGCTGC CTGATTTTGG
 CTAGAAAGAG CTGTATTTGA NCTNGGTA GGNCACTAAA GCATCGTTCT AGACGGCTGT TAATAGAACT NCAT

SEQ ID NO:1502: (Length of Sequence = 373 Nucleotides)

GAAACAAGGC ATAATGTTGT CACAGAATCA GAGATCCAGT CTCACTTTTC CACAAATCTC CAAATCTCCA GTCTTATCTT
 GTGTGCTCTA ATGGTTTGGT TCAATCCCTT TCCAATCTT GTTTTCAAAG CATGGGGCCT GAGTGTCTC CACTCTCTCT
 AAGAAAGGAG CTTGGGTGGA AGGGACCATG CTGACCTCT CCATCAGAGG GCTCTTCCAG TAGTATTCTC GGATGCAACC
 TCCATTTCTC AGTTACCAAT ATTCTCTGTA TCAGCTTTGT CCTTCTTGGN GGGATGCACA GTGATCCGGG CCACCACTGT
 TGTGTCTGTG TGCTCTGCT CTTTCTATG GTTTCAGNT ATTTCTGGG GTT

SEQ ID NO:1503: (Length of Sequence = 266 Nucleotides)

GNCAACAGGC CAGTNTTTAA AGAGGGTCAA GTGGAGGTGC ATATTCAGA GAATGCTCCC GTAGGTACCT CTGTAATTCA
 GCTCCATGCC ACTGATGCAG ATATAGGCAG TAATGCTGAA ATCCGGTACA TTTTGGTGC CCAGGTGCCC CTTGCAACCA

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AAAGACTCTT TGCTTTAAAT AATACTACTG GGCTGATTAC ANITCAGAGG TCCTNNGATA GAGAGGAGAC AGCCATTAC
AAAGTENCAG TGCTGGCTAG TGACGG

SEQ ID NO:1504: (Length of Sequence = 311 Nucleotides)

ACTGGATGGA TGTTTGATCT GTGTGGTCA TGAAGTTGTT TTTTTTTTTT TTAAAAAGAA AACCATGATC AACAAGCTTT
GCCACGAATT TAAGAGTTT ATCAAGATAT ATCGAATACA GCATGGGATT GGGAAAGTTA ACTAAAGGTA TTTGAGCTTG
CACTGGATCT TGAAAGGTAG AAAAAGGGAG CAGGAGGAAA CTCATCCAGG TAAGAAAAAT AGACTGTNCA AGATGGGCAT
GAGAAACAGT GAGGTCCCN GCTGGAGGTG GGTGCTAGTC ATGTTGAGCA CTNCTGGCAG GAGAGGTTTT T

SEQ ID NO:1505: (Length of Sequence = 363 Nucleotides)

CCACTCATGG CAGAAGGGAA GGGGAGCTAG TGTGTGCAGA AATTGTATGG TGAGAGAGAA GAAACAAGAG AGAGGGAAGG
GAGATAGCAG GCTCTTTTCA ACAACCAGCT CTCATGGGAA ATCATAGAGT GAGAACTCAT TCACTACCAT GAGAATGGCA
CTAGGCCATT AATGAGGGAT TCGCCCTAT GACCCAAATA CCTCCCAITA AGCTCTACCT CCAACACTGG AGATCACACA
TCANCATAAA ATTTGGAGGG GTCGAATATC CAAACNTAG CAACTTGGAA CCACCAGAAG CTGGAAGAGG CAAGGAAAGA
TTTTNTCCTA GAGGCTTCAG AATAAGGTAT TGCAATTCTG AAA

SEQ ID NO:1506: (Length of Sequence = 177 Nucleotides)

CGGACAGAGC AGGGCAGAAA AATGAGGGAA GGATGACAGA AGCTCATCAG AAAGCCAGTA ATACATAAGA TTAGTTTTNT
CAGCAAAACC TNGTAAACTT TGACGTAAA AGACAAATAT TTTGATCTCT CATTCCTACT CTCAAAAGG TTTCTAGTTC
ATATTGTTTT GCTAAAA

SEQ ID NO:1507: (Length of Sequence = 345 Nucleotides)

CTTGCTTGAT TTTCCCTGT GTGTCAGAGA ATGTGCACAT TGAAAGAGAG GGAGCTCTCC ATCACCAGA GAGCCCAAAA
ATAGCCCAAC TGATCATAGC CGTTGTAAAA ATATTTCATGG ATGTAAGGAA AGATCCTTTC CCAGTCTGAT GCTCCTTGAC
TTGTGATTG CTAAATTTGA GAAGCCATCA CTTACACAAC CTGTTTATA GACAAATCCT TCCAGTTTCA GAAGAAAAAA
TGTCATCTAT CTCACCTCC ATCTCTTTT CAAACTTCGA TAGATGAGAA GAAATGGTG AAATAAATTT TTTAGAAATCA
GTTTTGCAAG ATTGGTTTC AAGGA

SEQ ID NO:1508: (Length of Sequence = 326 Nucleotides)

AGTTGGATTT CAGCTACTCA GAGTAATTGG AAAAGGCCAC AGCCTGGTGG GCTTCACAGC TTTCAGAGAC CTGGTAGGGG
ATGGCTAACA GGTCTNCTG CCAGGAGACA AGTGGCAGAC CCAGGTGTGA AACTTTTACA GGTCCACCA AGCCTTTCTT
ATGGAGCACA GAGCATAAGG ACAACTTCTG CAGAAATGGA ATGGGGTACT TGGAAACAAA AATACATACA CCTCCTTCC
CACCTGCCCTC CAGCTTAGTA GCCCATAGTC CTCCTTGTCC CTCACACTGA GCCAGGGCCT GNCITTAGATG ATGAAATGCA
TGGCCT

SEQ ID NO:1509: (Length of Sequence = 329 Nucleotides)

AGTATGGGTC CCTTGGTACT ACTCAAGGTT TACAATATTG CATTAAACAC ATTGAAAAAT ACACGAGAAC CTTGAGGGAT
CACATTTTAC TGCAATATGT GATTTCCTGG TGAGACTCCT TGTGCAGAGA TGATTAGCTC ACAGAGCGTT GTAAGCACGT
ACTCGCAACA CCTGAGCATG CCGCAATGGC AACAGGAGGT ATCTTCACAA TTATGATGGT AGTACAGTAT GTACTGCAGT
TGTTTACACA GTTATGATTT AGTACTACAT CTTTACANTT GNTATTTNC TTNCTATTTT GAATGGTATG TACTGTCTGT
GTGTACATA

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SEQ ID NO:1510: (Length of Sequence = 247 Nucleotides)

TAGGAAAGAG TAAGANCTTC TTINCAGGCT GGAGGTGCTC GTATGGTGGG ACAGGAAAGG GGAAAAGAGA AAGGGGCAAC
 ATGGCAGACA TACCACGGTT CCTACAGAGA TTAGGGGCG CCGTGGCCCG GGAAGTACAC AGGGCAGAGA GCTGACTCTC
 AGGCCAGGAA GGAGTTTAGC TCTNACCCAT CCTCANGGAC CACGGCTCTC CCCCAGCCTC AGCTGACACA CACACAAAGG
 AGCGTTT

SEQ ID NO:1511: (Length of Sequence = 369 Nucleotides)

CCACTGCTC CTTTATTAAC TGINCTTCCT GTAGTGIGTA TTTGGGATCC ACTGGGAATC ATAGAAAGGA ATCAGTGCTA
 GGNCTGTTG GGATGCACC CTGAGGGATG TGGCTTTGGC TTCTCTATCA ACCTTTCTGT TCCCTGTGC TATAGGAGTT
 AAGTCCCTTT NATGCCCCCT ACAGTGGATT ATAGCTATGG CCTGTGGCAG GTGTATGTT TACAATAGCT GAAGAATTTT
 AGGCCCATGC TTTATGGGGG AGGGTTTNC TAGCTAGTAG TCCCTTTCT TTCTAGATTG CAGCATAAGC GTGAACNC
 AAGGAATGCC ATATTTAGA ATCCTGINAT AGGATGGITA AGGCTTTT

SEQ ID NO:1512: (Length of Sequence = 236 Nucleotides)

ATGCATTAG AAAAGACAGC CAAATGACAG ACTGATAAAA TATTTTCATT ACAAATGG TTGAGAACTA CCGTGTGACG
 TAAATGAAGT TTCTATTACA CATGTACTAA CAGAGACTTT TCATTACATA TTCTAGGATA TATTTAAAT ATATGTATAT
 TTTGATATTA AGGGAATATA TTTGTGTC ATTTTACAAT GTGTAAC TACATATATTA NGGCTTTCC AATAAA

SEQ ID NO:1513: (Length of Sequence = 408 Nucleotides)

CATTAATATT CTCAGTGTG GAAATATTT NATATTGCCA AGACCATAAT GTGAGNGTG CAGCTGCATA ANTCCCTGAG
 AGAAGATTAG TGGGCTAGC ACCTTACAAG GAAAGACAAG CTGTGTGGCT GGGCCCAAGG ACAGTCAAAT GTCTGCCTGA
 CAATCTCCAC ACAGAAGGTG TGCTCAGATC ACTTAGGACA CCCAGAAAGA GCTCACAAG GGCAACAAC CTAAGGCTGN
 TATTCTCCAT CTAGCGGTAC TTACCTGGGA ACTGAGTGGC AGTGGACAGG AAGCAGGGCC TGGGCTAGGG AGACCCTCAG
 GAGGAANGG GACCCAAGAA GTTAGAAGTC CATTCAITCA TATACTCATT CATTGAGCAA ACATGCGCTT GACACCTTCT
 GTTATGCT

SEQ ID NO:1514: (Length of Sequence = 359 Nucleotides)

TINNCCAGGC TGGTCTCAA CTTCTGGGCT CAAGTATCC GTCCACCTTG GCTTCCCAA GINCTAGGAT TACAGGCATG
 AGCCACTGTN CCTGGCTAGA AAATNNTTT TTAAGGNA GGATGTAGAA TTNCCTAGCT ATGTAGGCAA GGCAGGAGGA
 GAGGGGCCA GTTGGGAAGC ATAGCCACA AGAGTATGAG GGCTGANCC AGGATGGTGG CAACAGGAT GGAGAGGAAG
 GCGTGCCAGG GCATGGTGGC TCACACCTTA TAATCTAGC ACTTTGAGAG GCTGAGGGAG GAGGATCAIT TTNAGCCAA
 AAGTTAGAGA CCAGCTGGG GNAACATAGT TAAGGACAC

SEQ ID NO:1515: (Length of Sequence = 343 Nucleotides)

GAGCCCTTG ATGGCAAGAN CTGACCCTC CATCTGGAG AAGAGGAGAC CAATTINATA TTATGGAGGC AGAATATACA
 GGACTGTGTG ACTAATCGA CATGTGTGTC CATGGAGCTT GAAGGGGACA GAACCACAGG TGCAAACTG GTGTAGGTAG
 TGCTGGCCAT TGCTCAGAAC TTGTGTGAG TTGAGCCAG GCCTCTGGT GCAGGACTCG TGAATGGAGC AGTCTGAGA
 ACCACCCTT TGCTAAGGGA GCTTNGGAGC CACATGGCTG CTCCCTTAC ACTGGGTAAC AGTGTAGTAT CCTGTGAGAG
 AATAACGTA TTCATTTAAA AAG

SEQ ID NO:1516: (Length of Sequence = 380 Nucleotides)

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TTTTGCCTTA TTCTATCCGA TTTTTCCTT AAGCTTCTAC CTGGNATTIN CCTTTGGAAA AGTCTCTGAG GTTCCACCAA
 AATATGGAAC TINATTTTGG ACACTTTGAC GAAAGAGATA AGACATCCAG GAACATGCGA GGCTCCCGGA TGAATGNNIT
 GCCTAGCCCC ACTCACAGCG CCCACTGTAG CTTCTACCGA ACCAGAACCT TGCAGGCACT GAGGTAATGA GAAGAAAGCC
 AAGAAGGTAC GTTCTACCG CAATGGGGAC CGCTACTTCA AGGGGATTGT GTACGCTGTG TCCTCTGACC GTTTTCGCAG
 CTTTACGCC TTGCTGGCTG ANCTGACGNG ATCTCTNTCT GACAACATCA ACCTGCCTCA

SEQ ID NO:1517: (Length of Sequence = 411 Nucleotides)

TGAGCAAAAC ACAGAGGACT GCACCTCTAG TGGCTCGTAA TGAGAAAGAA GATGGTCTCA AACCTGAGAA AGATAATGTG
 GAGTGGACCT CTGTGTCTC AGTATTAACA GTCCCTTCTA GGAAGTAGGT AGCATTCTG AAAATAGAGT GAAGCAATTG
 ACTGATGGAT TTAATCTTTA AACTGCTTAG GTAACCATCA ATCTGTAATG AGCTTAATAC TCTTAACTAG GTGCTATTTT
 NCATGTGTGC TACTTTGCCA GTGATAAAGG ATTACGAAAA ATTCCTTACC AGAGGAAAAA AAAAAATTGA ATGACCTTTC
 TTGGGAAGGT GGTCCCTTGT TTGTGATCAA ACTTTGACAA GAATGGTAA TTAATTTCT CTAAGGAATT NACCGTCTC
 ATAGTGTGT T

SEQ ID NO:1518: (Length of Sequence = 388 Nucleotides)

GGTGGGCAGC TTCTCTCTC AGCTGCTCTC CCATCATCTG GCTGAATATG GGGCTTINAT GGGCCTCAGG GGAGGAAGTG
 TGTCNAAAT GGTCCGTGGG CAAACATGGG CGGGCCTGGA AAAGGCACCA CAAGTCCCA CCCCAGTCAG TAGGATCAGC
 AGTCTGACAC CCAGGCTTCA GGCCCTCCCC GACTTGAAGG TGGTGTCTCA CCAAGGACTC ACCCACTCCT GCCCAGGAGC
 TTGTNTGCCT CCTGCTGCCA TTTATGGTGC CCAGGCTGTT TGINCCAAGG AGTGTCTGTG GGCCAGCNCT GAGCTGCCCT
 CAGCACCCCC TTGGCCTCTT TTCTGINCTC ATTGGTGCCC AAAGTCCGCA GCAGGCTGAA GTGGCAGG

SEQ ID NO:1519: (Length of Sequence = 358 Nucleotides)

TTGGTTAAGA CCAAAGTCAG ATCACTCCCT CCTAGCTCCA AACCTGCAGT GGCTCCCAAT TCINTCAGCA TACAAACCCA
 GATCCTCAGG CTGCCATTIN TGGGCTGAAT CCTGTCCCTG CTGTCTGATC CCACCAGACA TAATGGAGGC CTGAGGTTCC
 CTGAACACTC CTAGTTTAGC CTTAAGTTAA GTATTTCAC ATGCTGGTTC CTATGCCTGA GATAATGTTT CACATTINAT
 CCCATTGCTT GCCAGAAATA GAAACCCTTC CACATAATIN CAAACAGAG TTTACANCAC AGAGCTTTGG GTGACTGCAG
 GCCTCCAAGA ANGNAGGCA GAAGGGGCAC TGAAGAGT

SEQ ID NO:1520: (Length of Sequence = 379 Nucleotides)

CCAGAGTTAA ATATGCCAG GCTGAAAGAA GGTGTATAAT GTATGNCCT NCTTATACCA AATGATTTCT TTGGAATTTA
 AACAAATATG TTTAGTATTT TATTCCTAAT TTAGGAAGAA AAAGCAACTA AAGTTGINCT GACATTGTAC ACAGATGAGT
 AGCACGTAACT TTTTATTTAG TAAGCCCCAT AGGATAGTAN GGNATAAAG TTGTTAGTGA GCAAAACAGG AGTATCCTGC
 CATTTGCTTT AATTCINCTT GTGATAGTTT TGAGGGTACA ATAATTCTCT TGTGCGTGT ACTCAAGCAA ACCAGAAAGT
 GTCTTTTGTA AATACGATT TTGGGCCTCA TCCTCATGGA GGTTCCTGTT GTTTGTGG

SEQ ID NO:1521: (Length of Sequence = 339 Nucleotides)

GGGACAGGAA GCCTCTTGGG TTGGACTCAG ACTCAGGAGG TGAATCAAGC CTCAAGCTCA GAAGCCCTCT GTNACCATCT
 GTTGAATCAG AAGCATGCCC ACCATCCCAT GCAGTGCCCT TCAGGCACT GTCTGTAGC AGACGGAGTT CAGGCTTTGG
 AAGTAGACAG ACCTGGGTTT AAATCACAGC TCCGCTTCTT CCGCTGAAG CTCCATAACC TAGGATAAAG TCGCTAAGCC
 TNCCAAGTC TCAGATTTCT TACCTCTAAG GTGAANGGAT TGAATTCAC TTTACTTCCC CCCTTTTCCC TTTANGGACT
 CTGCATCCTC NTTTGTCTG

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SEQ ID NO:1522: (Length of Sequence = 405 Nucleotides)

GTGAATTCA AGCAATGTT AATGGGGACC AACAGGGCTG CATTAGAAA ACCACTTINN ACTGATCTCT CCCCCACATA
 TTTTAAATTT GTCTTGCTTT GTTTATTTTG GTTATGCAAG TCCTTTCTCT TCATGAAACA AGTGTAAGGC TCTAAGGCTA
 AAATAATAGT TATTTTGTG GGGCCCAAAT AGCTACTTTT GAATTTCTTT CTTTAGTATA TCTCAAATCT GGGGAACATG
 GAACTTGAAG ACTCCTAACC ATGAAGCATT TGGAAAAATA CATATCATTG ACTTTTCACA GAACCAATTTT CTTAAAAATA
 AGGGGGCAAT ATCCAGATTG ACATGCATGT TCATAAATAA AGCTTTGGTT TTAAACAAA TCCACACCAG CAATTATTTT
 CAGCT

SEQ ID NO:1523: (Length of Sequence = 284 Nucleotides)

AGNTCACAGA ACTCCAATTC TTTATTAATC ACAGCTTGCT CACAATGACA TACAGGAAA TAGCACTAAT GAAGNGTAAA
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGNCITCA AAAGTCCGAT AGGTACTTAT GGTGGGTATC
 TGGTGATTCT NAGTTGGCAC AAATGCCCTG CCTAGCCCC TTAAGTGGT CACTTTCACA GATGGNGTGT TTGTTGTG
 GTGTTGTAG TAGGCAGGAT TGCCTTACAC TGGGGAAGAA AGAC

SEQ ID NO:1524: (Length of Sequence = 299 Nucleotides)

GTGCTGTAC GTGACAGTTT TGTCTGATCA CATTITAGGA AGATGATGCT GTTCTTNCIT CTTAAGTATT TATTTINATC
 AGTCAAGTGA TAGGAAGTTC AATTTCAGT ACAAGACATT TGGATCAAGA AGTGACTATT ATTTATTTAT TTNAGATGGA
 GTCTTGCTCT GTTGCCCAAG CTGGAGTGCA GTGGTGTGAT CTCAGCTCAC TGCAACTTCC TCCTCTGGG TTCAAGCAAT
 TCCNCTGCCT CAGACTCCCG AGTAGCTGGA ATTTACAGGC ACCCACGGG ACCAGTGAA

SEQ ID NO:1525: (Length of Sequence = 398 Nucleotides)

GCCCATGAAG CAGCTCTCGT GGAITGGAGT CTCATGCCCTG CAGCTCTCCC ATACTGGAGT TGCAATGCTGG TGGTCTTACA
 GTGCTGGTGT CTGGGCACTG GCCTCACTCC CATGGCTCCA GGAGGCATTG CCTGGTGAG GGATCTCTGT GGTGGCTCTG
 TCCCTGTINAC AAGTTTCTGC CTGGGCTTCC AGGCTGTCCA TGATATCCTT TGAAATCTAA TTGGAGGCTG GCATGACCCC
 ATGGCTTCCA CACTCTGTGC ACCTGCAGAA TCAGCACCAT GTGGACACTG CCAAGACCTA CCTACCACIT GTGCTCTCTG
 GAGCAGCAGC ACAAGCTACA TCTGGGGCTG CTTGAGCCAT GGCTGGGGCT NCCAAGGAGC AGAGTCTGA GGGTGGCC

SEQ ID NO:1526: (Length of Sequence = 318 Nucleotides)

GTCTCTCTCT ACTGCACCAT GATGCCITTA AAAAGAATCT AGGGGCTGGG CACAGTGGCT CACGCCINTA ACCCAGCACT
 TTGGGAGGAG TTCATTGAG CTCAGGAGCT CGAGACCAGC CTAGGCAACA TAGTGAGACC CCCGINTCCA CTAAAAATGA
 AAGCAAATTA GCTGGGTATG GTGGTCCATG TCTGTACTGT GGTCTAAGCT ACTCGGGAAG TTGAAGCAGG AGGNTCACTT
 GAGCCAGAA GGTCAAGGCT GTAGTGAGCC ATGATNTGTC CACTGCATTG CAGCCTGGGC AACACAGTNA GACCCGTG

SEQ ID NO:1527: (Length of Sequence = 313 Nucleotides)

TTGGCTAGAA GGGAGGCTGG AGCCTTTCAT GGTGGCTTTT GAATGCCATG GTGAATAGTT TGTCTTTAT TTGINATIGA
 ATAGCAATTT GTACACTTCT GAGCTATTAG AGTGAATGA TTAAGCCTGT GGTTTAGGAA GAAAGAGCCT ATTAGGGAGA
 TAAATCTTTC CCTAGTTGTA GGAAGGGTTG GAACAGTATG ATATGGAGAG GGTAGTAATG AATGANGGAA TNGAAAACGA
 GAATAATTTT AATGATACTG GAGGTGCACT ATACAAGTTG NGCAGTAGGT TTATGTCTAG GAAGATAAGA AGT

SEQ ID NO:1528: (Length of Sequence = 405 Nucleotides)

GCCGTGCTA CGCCACCGC CACCGCCACC GCCCGGAGT GCTGTCTCTA TGGCGAGGAG GAGGAGGAGG AGCGCGAGTC
 AGCGACACAA GTACATAAAT AAAGGATAAA ATATTTTATG AAACAAATCT TCAATCAAGT ATAACATTTT GATGCTTGGC

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ATCTAGACTC CCTGTGCCCC TCACTATGCC AGCGGAACTG TAGATCATAG CCAAAGAATT TGTGAAGTTT GGGCTTGCAA
 CTTGGATGAA GAGATGAAGA AAATTCGTCA AGTTATCCGA AAATATAATT ACGTTGCTAT GGACACCGAG TTTCCAGGTG
 TGGTTGCAAG ACCCATTTGA GAATTCAGGA GCAATNCTGA CTATCAATAC CAACTATTTC GGTGTAATGT AGACTTGTTA
 AAGAT

SEQ ID NO:1529: (Length of Sequence = 241 Nucleotides)

GAAGGAGAAA CACTTCTTGC CTCCATAATT CAGACAGTAA ACTGATCGCT GAGATTGAAG TTTGCTTGTT TCCTGGGAA
 GCTTNAAGAT CCTCGTGGGA CCACCATCCC CTGCTCAGTC CTCCCTGGAA GGGGGCACTG GCTGGGTATG AGCCGCGTCA
 CCGTTGGGTT TGTAACTTTN TGGATGGTGC CTGGNTTCA CCTGGGGCTG GCTGAGGAAA GGGGAGGCGG TAGGNGTCTG
 C

SEQ ID NO:1530: (Length of Sequence = 356 Nucleotides)

GGTCTCATGC AAGGGTTTCC CATGCCTGTA AGTGTGTTTG TAATCCCACA TGTATCAGGT GCCTGGCTGC TCTGGGACTT
 GCAGTAATTG TCCTTGTGTT GTTTCAGGTG TGATCCCTG GGCCCGTTTG TTGTGGGGG AGAAGACTTA GACCCTTTGT
 GGTGAGTACT GCTGGGGAGG TGGCAGCAAC ACAACTTGCT TTINTGGCTT TINAGCCCCA GTCATCTTC TAATTTNAGA
 GTTTTCGGTC AGTCTCTTCC TTTGGGNGTN GAGGAGGCG AGCTTTGCTG AGCAGCTGAG AAAGCACTGC CACATACGCT
 GGCCCTCCA CACCTAGAGC GGTGCAGGAG AGCACT

SEQ ID NO:1531: (Length of Sequence = 379 Nucleotides)

CCAACAGATG CTGCTACGTT TCCTTCAAAA TTGTTAAACA TCTCTTGGG AAGAAGCTGC TTAGTTATAT CCAGCGATTG
 GTTCAAATCC ACGTTGATAC AATGAAGGGT GGGGTATCTA GCAGGATGTC TAGTTCACGC ACTGGGTGAA AAACAACCAG
 AGCTGCAGAT AAGTGAACGA GATGTTCTCT GTGTTGAGAT TGCTGGACTT TGTATGATC TCGGTCATGG GCCATTTTCT
 CACATGTTTG ATGGACGATT TTATTCCACT TGCTGCCCCG GAGGTGAAAT GGACGCATGA ACAAGGCTCA GTTATGATGT
 TTGAGCACCT TATTTAATTC TAATGGGATT AAGCCTGTCA TGGACAATA TGGGTCTCA

SEQ ID NO:1532: (Length of Sequence = 307 Nucleotides)

GATAAACTTG AGCCACCAAG AAGTGGACTC TGCCTAGGAA GACAGTTTGC TGAAGTTAGA AAGTACTGGT CTAGGAACCA
 GAAACCTGA TTCTNCCAA GAGTTAGAAT TGINAGINAG TTCTTNTG TTTTINAGTTT CCTTATCTGT AAAATAATTA
 CCCAGTTCAA TTGGATAATC TCTATGATCC CTTCCACATT CTGCATACCT GGATATCTAC TGTTTCTAAA TATTTTGCGA
 TTTCTTATAA AGCCCTTTCA CATTTCCTTT ATTATTTTTC CCTACAAGA ATTCCTGAAA TAGGATA

SEQ ID NO:1533: (Length of Sequence = 337 Nucleotides)

ATGGCTTTAT TTGCTGATTG AGAAGTGGTC CAGCCGTGGG CTAGCAGTCA TTTACATATC AGTGACCAA TGCAAACATA
 CCGTACTAA CAGTGCCTTG GTCCATGACA TACCCTTTTG ACAGCCCAA GCTGAAACGT CAACTCTATC TGGGGTTACT
 TGCTTATACA AAGATGTTAC TCTAGCAATT GTTGCTTGAG GGCAAGACCN GATGATTGTC ACTAGTAGGA AGAAAGCAGA
 AGTGATGCAG CTTACACTGC ATAGTCCCTA CCTTNTGGA TTAATGGAA AAGTTGCTCA AACATAAACT TGTCTTAAAC
 AAAGGTGGGT AAGANTC

SEQ ID NO:1534: (Length of Sequence = 317 Nucleotides)

ATGGGCATGT GGGTACTACG TTAAATATT TAATTATTTT AAAAATAAAA TAGGAAAGAT AAAATAGCTT AAAGTGATTT
 GATGCTCTGA ATAACTTTAT GAGTGAATAG ATACTGAAAT TTGAAGTCAG TGTTTTCAC AACAAATCAA GATTTGGGAC
 TGGACTTACT GGGTTGGGGA CTTCCTAGGG ATAACGGTGG TGCTATGAGC ATGCTGGAAA GATGAGAAGC AAAAGCCTGG

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AATTGGGAGT CCTGTACTGT CTTTAGGGTA TGCAAAGAGG CTCCTTCTTT TCTAGGIGTT CATCAGTACA ATATGAC

SEQ ID NO:1535: (Length of Sequence = 323 Nucleotides)

ATATTACATT GATGTCAGTC TTAAAGATG GAGTAGGACT TTNCAGGCAG CAACGAAAGG GAAGGACATT TCAGAAGCAG
AAATACCAAT TGTAAAGGA TGACAGCCAA GAAATATTAA AGCATATTTG GAAAGTATTG AAAATCTCTG TGTGGCTAGA
ACTTTAGATG AAGAATCAGA TACATCTGGA GAAGGAGATT NAACNGATG ATCATAAAGA ACATTTTATT TAGGCCATGG
TAAGGCTTGG GCACINTGGA GCCCATGAAG GTTTTGGAC AAGGGAGTTT CCTTAGGGAG GAGTATNAAG CCATAAACCA
AAT

SEQ ID NO:1536: (Length of Sequence = 305 Nucleotides)

AACCACATTT TTAAGTATC TNCCTCCAGC TGGATTCCAA CATGCTGGCC CGGAGCGTGG CTGGCTGGAA GCAACTCCAA
CAGGTTTTTC CCTTCCCGT CATGTACATT AITTTATTTT GATCTACTC ACTGTCCCAA GTCCAGAGGC AGTTACAAAA
AACACTCTTG ATGCAACCG TGAGTGGCTA CAACACACGG ATGGGGTGG GCGCGATTCC CACAACAGGG AGTGAATCC
GGGAAGATG ATATATAGGG GCAAGACGGC CCTTACTTT GCTAAGAGTA TATGGGAGCT CAAAA

SEQ ID NO:1537: (Length of Sequence = 279 Nucleotides)

GGTGGCAGCG GCGGCGCGC GACTGAAGCG CGGAAAAGC TGAGGCGGCA ACGTCGGGA CGGCTGCGG GGACGGCTCT
GTAGGAAGGA ACTTGGTTC CCTCCCTCA GCTTCGCCC CAAAAGATT AGAATGGACA GTTTAGAAGA ACCTCAGAAA
AAAGTCTTTA AGGCTCGAAA AACGATGAGA GTNAGTATC GTCAGCACT TGAAGCAGTG TACAAGGTCA AAGAAGAACT
NTTGAAACT TGATGCAAG CTGTTAAATN GCAACCATG

SEQ ID NO:1538: (Length of Sequence = 310 Nucleotides)

ATATTTCCTT CTGCTCTGAC TCCGGAAGAA CTGCACTGT TGCCTAGGCT GATAATCCCC GAAAAAAGT AACAAATGCA
ATINTACCCC CCACCCCAT ATACAGCCT CATATATATA TATGAGAGAG AGAGAGGAAA AGATCATGAG ACATGCTTC
TAGGGAAAAA AAATTTCTAC TTCCCTAGCC ACTGTAGTCA TTTGAAACCT GAGTTAGACT ATGAGTTAGG AAGTATTTTC
ATAGAGTTCA ATTAATATAT TTCTGCTCTA TGCATGGATG CTAACAGGTT TAAGGAAACA CAAAAGCCAA

SEQ ID NO:1539: (Length of Sequence = 267 Nucleotides)

GAGATTTTAC TTGTAAATCG AGTAATTTAG CCACACTCTT GTGAGGGAAC AAGCCAGAGC CAGGACCGCA TATTACCCGG
TAAAGCTGCA GAGAAGACTT GAGACTGTGA AGATTGGNCC NGGCTGCAGT CCGTGGTCA GTAACATCTG CAACATTATA
CAGCCAGCAG ATCAGCTCTT CCAGCTGACA GCAAAATGTC TTCACACATT GCACCAGTGA TTCTTTTCCC TGINTCTCTC
CTTCTCTGGG GAAGCTGCCC TTNAACA

SEQ ID NO:1540: (Length of Sequence = 354 Nucleotides)

ATTTATTTCAG ATGAAAAAA ATCAAGGCTT AATTAAAGTA ACTTGTCCTA GGTCAAGGAG TTGACAAGTG GCTGAGCTGG
AGTTGAGCAT CTCAGACATC TTCTTTGAA TCCTTGCTT CCTTGTAAT TTCAGATGAC GGAGCATGAC GGCTGCATGA
TTATGGGGTC ACCGGGCTG TCCTGGGCT GAGGGACCAA GGATCAGAAA GGGCAAGAAC CAACTCGNTC AGCTAGTGAA
AGTGCAATTG GACANTGATC CTGTTCCGG GNTTAACCTT CCGCTGGCC TTTAAGAGGG NITCTTGAAA TGCACCAAGG
GGGCTAGAG GAAGCAAGCA AACINCTTGG ACCT

SEQ ID NO:1541: (Length of Sequence = 403 Nucleotides)

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GTGATGTTAT ATCAGGTAAA ACCTGTCTAA GGAGAATAGA CAGTAGTTAG TTCAACTTAC TCATTACGTA TTAGGAAGAT
 TAACCTGGTT ATCATTGTTT TATACATATA TATATGNAAT ATATATGAGT ATTGCTATAA ATATAATACT TTTACCTTGT
 TTATGTATTT ACTCAATATT CTCCTTTTCC TCTAAAATAA TCTGAAGTGA CTATTATCAA TAAGTTTACT ATGCCAAAAT
 TCATTAATTG CCTTTCACIT AACTTTTGGG GCCATAATAA ATAATAAAAT GTATTGCCAT AACATTAATA AACTACCTTA
 CAAAACCACC AATTAAAATC AAACAACCAA AAAGGTGTTA TTTACATCTG NNCACATAAA TCTACTAAAA ATACAGGGTT
 CAT

SEQ ID NO:1542: (Length of Sequence = 333 Nucleotides)

CTGTACATG ANTTTATAAA AACATGTCAC GCCCGGCTCT GTGGCTCATG CCTGTAATCC CAGCACTTTG GAAGGCCGAG
 GCGGGCGGNT CACAAGGTCA GGAGATCGAG ACCATCCTGG CTAAACCGGT GAAACCCGTC TCTACTAAAA ATACAAAAAA
 TTAGCCGGGC GTGGTGGTGG GCGCCTGTAG TCCCAGCTAC TCTGGAAGCT GAGGCAGGAG AATGGCATGA ACCCGAAGG
 CGGAGTTTTC AGTGAGCAGA GATCATGCCA CTGCACTNCA GCCTGGGTGA CAGAGCAGAG CGGGGACTCC GGAGCAATGG
 GNAGTACAAT CCT

SEQ ID NO:1543: (Length of Sequence = 329 Nucleotides)

CCCTGATAA ACCTATCAGA TTCTGTGAGA CTTATTCAIT GTCATTAGA ATAGCAGGGG AAAGACTGGC CCCCATGATT
 CAATTACCTC CCCTGTCATC CTTCCACAAA CATGTGGGAA TTGTGGGAGA TACAATTCAA GTTGAAATTT GGGAGGCGGC
 ACAGCTGAAC CATATCAGTC TGTATTATCT CTCCTTTTTT CTGCTTTAAG NGAATATACG NAGGTGTTGT TTTAGGGNT
 TATACATAGG TATTCTGAAA GATGGGGTTA TTTCTGTTT CANACTTTGA CTAAGTGGCT TCTTTGTGCC CCTATGTGCC
 AGAATAGCC

SEQ ID NO:1544: (Length of Sequence = 313 Nucleotides)

CGGAGATCCG TGATGTAACA AGGATTGANC GAATCGGTGC CCACTCCAC ATCCGGGGAC TGGGGCTGGA CGATGCTTG
 GAGCCTCGGC AGGCTTCGCA AGGCATGGTG GGTCACTGG GGCACGGCG GCGGCTGGC GTGGTCTGG AGATGATCCG
 GGAAGGGAAG ATTGCCGGTC GGGCAGTCT TATTGCTGGC CAGCCGGCA CGGGGAAGAC GGCCATCGCC ATGGGCATGG
 CGCAGGCCCT NGGCCCTGAC ACGCCATTCA CAGCCATGCG CGGCAGTAA ATCTTCTCCC TGGAGATGAG CAA

SEQ ID NO:1545: (Length of Sequence = 384 Nucleotides)

CCCCAACCT GGAGCTAAGA ACTTCATCTC ACTTTTGACA CCCCAGCCCC CAAAATATGG AAGCCAGGA GAGCCAGGAG
 AATTTATAGC AGAGGCTTAA AGAGAAAGTT ATGATTGTT TAAAGTAGAG AATAAGGTGA AAAATAAAC CTGGTACTCT
 GTCTGGAAGT CCTGGAAGTC TCCTTGCCA ACCTCAACTG GCCTGTGGC TCCTGTNCC TTGCTCTGGG ATGCCATGGT
 GAATGTGAAA ACAGGGGAGG TTGTGTGTGG GGGTGGGAAT GGCTTTCGG TTGCAAGGCG AGTCTTTGC TGAGCCAGC
 CTGAGACCCA GCTTATGGG TTTATCCAGG TGAGAAAATN CTGGGGACAT GTGTTGAGG TTTA

SEQ ID NO:1546: (Length of Sequence = 345 Nucleotides)

TTTAAAGAAC AATGATTAG TGAAAATNCT CTCAGTTTTT TTTAATTGGT TCAGCAATTG ATTAATTACT GAATCTTGAC
 CCTAACTTT TTAGTCTAGA AATGTGCTTG AGGAATACAG GCTGGAGATC AGCTTTTGA CATGTGCTTC CCTCCTGGN
 TCACATCCAT GTTGGAATCA ATTTATAAAC TGCCTTCTA AGGCTTAAAA TGATGGTGAT CTACAGACAA GTGCCITCCT
 AGGCACAGGG TTGCTGGAGA CTGATGCCAG GCCCATGGCT CTAAAGGGA AACTGAACT CATGGCAGAA ATGGTGGAAA
 GTAGAGAAAT GAATAGAGGG GGGAA

SEQ ID NO:1547: (Length of Sequence = 342 Nucleotides)

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GGAGGCTGAG GTGGGAGGNT CACTTGAGCC TGGGAGGTTG AGGCTGCAGT GAGCTGTGAC TGCACCACTA TACTACAGCC
TGGGAGACAG AGTGAGACCC TGTCTCATAT ATATATATAT ATATGTATGT ATATATATGT ATGTATATAT ATCTCTAATA
TATTAATATA TATCTAATAA ATGTATCTTA TATATAATAA ATATATCTAA TATATAATAT ATATATTNCC NAGAGAGGGA
GAGGCTCTTA GGAAATTATC TTCTTGCAAT TTATGTATATA TTATGCTATA TTTGGCTATT TCCTAAGAGC TCTATCGTAT
TATTTCCATT TATTGTGAG GA

SEQ ID NO:1548: (Length of Sequence = 334 Nucleotides)

GGAAATAAAG GTGACATGAA CTAACATTC AATCATGAAT GGTAGAAAAA AATGAAAATG TAACGAGATG GGATCCGGGT
CAAAGTCAGG GGAGGTATAG TTGAAGATAT TGAAGGAGTC ATTATGATAC CAAAGAAAAT GGAAAGAAGT GGTATCCAGA
TAGGTTATCC TTGGAGAGTA TCCNGGGATG TCTCTTTTCC TAAGACCTTA GAGAAGGAAA GGATGGCTGA TAATATAGGG
AAAAGTTGAC ATGGAAGGAT TAAATAATTT TTTTGAGGAA TTCACGTAAG GNATGATAAT CTGAATTTTC AGGGCTAGGC
TCAGAAGCAG GAAT

SEQ ID NO:1549: (Length of Sequence = 362 Nucleotides)

AGGATTCTGG GGGCTTAGAG AGGGCAGCCT GGAGAAGCCA GAGTTAAGCT CAGAACAAGA GGTGCAGGAA GAGCCACAGC
AGGGAAGGGA AGAGAGATCC CAGAGGAGGG GCAGAGINTG GCAGGACAAG GGCCCTGCCG TACATGCTAT GCATGAAGGA
AAATCTTGAG ACTAAGACTC ATGAAAAGNT CCAAAATAAT TATTTCTGTG GGCCCTAGA AGACTNAAGA GACATTTNCT
TCGCCATTGG CCCAGGGCTG CCTGGGCAGG AGACAAAGGA ATNAAAAGTC CAGGGGGAAA GCAAAAATCT ATGGGCTTCT
GAACACATGC TTCCCGGAGC TCGTCTNCAC AGCATCTTCA CC

SEQ ID NO:1550: (Length of Sequence = 328 Nucleotides)

GGACTAATTA ACTAAGAGG TTTGTACAG CAAAGAAAC TGTCACAGA GTAAACAGAC CTACAGAATG GGAGAAAATA
TTCACAACT ATGCACCCAA CAAAGCTCTA ATATCCAGAA TCTATAAGAA ACTTAAACCA TTGAACAACC AAAAAACAA
CAACCCATT AAAAGTGGAC AAAAGTCATG AACTGACACT TCTCAAAAAA AAGACATACA AGCAGCCAAC AAGCATATAA
AAAATGCTG ATATCATTAA TTATCAGATG AATGCAAATC AAAACCACCC AAGTCTTTT CTCTGTCTA GGNTAATTTA
TTTAGGG

SEQ ID NO:1551: (Length of Sequence = 365 Nucleotides)

CAGGAATTTA CATGGGGAGA CCTACCTATG GCAGCTCTCG CCGTCGGGAT TACTATGACA GAGGATATGA TCGGGGCTAT
GATGATCGGG ACTACTATAG CAGATCATAC AGAGGAGGAG GTGGAGGAGG AGGAGGATGG AGAGCTGCCC AAGACAGGGA
TCAGATTTAT AGAAGGCGGT CACCTTCTCC TTACTATAGT CGTGGAGGAT ACAGATCACG TTCCAGATCT CGATCATACT
CACCTCGTCG CTATTAAAGC ATGAAGACTT TCTGAAACCT GCCCTAGAGC TGGGATATTG TTTGTGGGGC AATATTTTIN
ATTGTCCTCT GTTTAAAAAG TGAACAGTGC CTAGTGAAGT TAGGT

SEQ ID NO:1552: (Length of Sequence = 330 Nucleotides)

GATCCAAAAA AATTTACTGA AATAGCAAAA ACGTGGACTT TGGGATTTCC TCTAACTGCT GCAAATTATA ACACAGAATT
GCTCAGTGT AATACTTGAN TTGTGGGGCC AAGTCTTCTG GCTGCCCTAG TTCTCTTTTC TGGCATTTGA AAGCCCTTGA
GCTAGCTATG GAGCTAATCT TTGGACAGGC TTTTGGTTC CCAGGAATGT CATGCCTTTC AATTTCCAAT CTATATATAT
ACAGTGTG TGATGTATA NCTGTCTTT CACTGTAAG CACCTNCACC CATCCCTTAT AGAAGGNGGC CACAAACAAT
CAAGCAAATG

SEQ ID NO:1553: (Length of Sequence = 304 Nucleotides)

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CCCTTGTCAC ACAGCCATTT AAAAATCTTC TGAAGGGCCT CAGGGCACAA AGTGATCATT TGGGATCCTA AGTTAAAAAG
GAAATGCAAG AGTAGGNTAC TCCAATTCCA GAGTCTTTGC AGGAGGCTAA TCCCACAAGA AGGGTAGCAT CAGAGAAGTG
GGCATTGGTC TTAGTGGTGG ATCATCAGGT AGACAAGTGA TAGTGTGTGT AACCCATCTG AAATTCATTT TACCGTCACC
ACTCTTACAA AGGACAGTTT ATTCCCAAGG ACAGTGCTGA CGGGGAGGGG GACAGGCAGG GAGT

SEQ ID NO:1554: (Length of Sequence = 309 Nucleotides)

TGTGTTACTG ACCATGTTTT TGAGAGTAGT GCCCCTAACC ACTTTGTCTC CACTTGCATA GTGTAGTGAT TTTNAGGNET
CTGTATGTCA TATTATAACA GAACTGACTG TATATGGCTA TTTTATCCCA TAATCAAGCC AATTCTTCCA GAATATTACC
ATCAGTATTA CCACATACAT CCTCCCAAAT CTATTTTCAA AGAATAAATA TATAGTCACT CATGGTTTTT AAGNAAACCC
AAAACCTACTC AACCAAAACC TTGAGGAAGG TTTTTCAGG GNTTCTACC TTAATTATTC ATAATGATT

SEQ ID NO:1555: (Length of Sequence = 326 Nucleotides)

GTTTAAAAAC TGTCCAAATG TCATTTTAAT TTATGAAGGC ACCCAGAATA AGTNTAATC TCATACTGCC CCAATATATT
TNTGGAAGCC AATTCTCTCT TTTATTAAIT TTTACTGAAA ATAGCACTTT TTTCTCCCC CTGATAGTAC TGGGTAATGT
TAGAATGTCC TCTAAAATTC TTGGACCTT ATTTACATTC TCAAGAGNIT TTTTAAATTT TACCAATAAG ATGTGCTATT
TGAGGAATTA GACTTTAGTT CAGTTGTACA TGGNTATGT CTGCTCATAT CATTCATGTC TGAGNCTTTC ATTTTATTAA
TATGGG

SEQ ID NO:1556: (Length of Sequence = 375 Nucleotides)

CCCATCCCTG TTTAGGTGCT TTGTCTCCT TGAGGAGCCT CCAATGCTGC TGCTCCTATA CATGTCACAA TTTGAGCCC
AGCATGCTAG GAACGTCTGC CAGCGCCTGG TTAAGCCAAT ACTAAATGGG GCCAAACAGG TGAACAGACA TTCTGTCTTT
CTCCAAACCT CTGAAAAAGA TTCTGCAACT CATCTCACAG TAATTTGTTC CCTAATTTAC TCTTAGGAAA TTGTCTTAA
AGTCTGATTA GGTAAAGTCC AATTCCCTGT AATTAGGATC CTCAGTGAAG AAAAATCTAC CCATCACCAC AATTTATTTT
CTTTTCTATA GCTCCAGCAT CAGTAATTGT ACCATTATTT TTGGCAGCTC TGGGG

SEQ ID NO:1557: (Length of Sequence = 306 Nucleotides)

AATTCGGAAG ACTATTCTTA TACATTAGAG TGAATTINAG ACTATCTCCA TCATTCTCCA GCCATTCTTC AGTGGGAAAA
AAACGGTGGA ATTAAACTAG TGAACAAG GCTTTCTCAT CTAGTCCCAA TCCAGTCGAT AAGCTGTGTT TNCCAATCAC
TGCTCCAGCA CAATGGCCCT CAGTTTATTT TTAAGTCTAT GGCAATGCTG AAGGACCATG TTCCCATGAG TGACACCCCT
CTGTAAATGT GGTGGCACAT TATGGGCTGC TGTTTTAGAA GGGACTGNCA ACTTGCTGGG GGTTAT

SEQ ID NO:1558: (Length of Sequence = 292 Nucleotides)

AATTCCTCCT TTCCAAATGT ATTTTCAATC CCTTGAGTGT CTAGGCTTCC TGCTTTTAAG GCCTNCCTTC TAACCCAGGG
TTGCCCCATT CACCTTAAAA CATTTTTCAA TAACCCAGAA AAAACCAGG TGAACATACC CAAGCTCCGG AACGACAAA
TNTGTGTTGA ACCCGCTGA TGAATCCAG GGAAGCCAA GAGGACAAAG ACAAGGATGA GGACGAGGAC CCAGGGACCG
NTGGTGAATG GCAACTGCTG TCAACTTCAC TTTTCAACCT CAGNCAGTTT GT

SEQ ID NO:1559: (Length of Sequence = 246 Nucleotides)

GTGGTCCGTT CTCAGCCCAA CAAGAGTGAT CCTTTTAAGG TCCACACACG CTGCCTCTCC TTCTCCGCA TGAGCCTCTG
GCATGGTCTT TCCTCAGCT GGCCCCGGGC TGGGCAGAGC CTCCTCTGC CGGGGCCCTT GCCCAGCCCC TCCTTTGCTT
GGAGTNAAGG TGTTCATACC AAAGACGGAA CCATTTCCGC TTTAAAGAAA ATATATNCAG AAGCAGCCGC TGCCTCGNAG
CCCTGG

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SEQ ID NO:1560: (Length of Sequence = 383 Nucleotides)

CCAAAGGTAC AACAGATTAA CTACATTAA GACAGGAATC TTTTCTAATC TCTGTGCCTA TTAAAGAAGC CACCTGCTTA
 GAAGTACTTT GTAGATGAAA AAATACTTAT GAATCCACTG TAACTTCACA ATCTTGAATG CCAAGGAAAA ACTTTACTAG
 TTTCATTAC CACTATTCTT TAAAGTNCCT TTTGATTTTA TGTTTTAAAT TTTTAAATTT TATATTTTGA GACAAGGTCT
 TGCTCTGTG CCCAGGCTGC GGGGCAGTGG CATAAACGTG GCTCACTGTC ACTTTGACCT CCTGGGCTCA AGGAATCCTC
 CCATCTTAGN CTCCTGAGCA AACTGGGNC ACAGGCATGC ACCATCATGN CCAGCTAATT TTT

SEQ ID NO:1561: (Length of Sequence = 313 Nucleotides)

CCCCCTCCAC CGCAGTCTGT GCCCCGTCC CCACCACCAC CTTCCTCAAC CACTTACAAC TGCCCCAAGT CCCCAACTCC
 AAGAGTCTAC GGGACGATTA AGCCTGCGTT CAATCAGAAT TCTGCCGNC AGGTGTCCCC CGCCACCAGG TCCGACACCG
 TGGCCACCAT GATGAGGGAG AAGGGGATGT ACTTCAGGAG AGAGCTGGAC CGCTACTCCT TGGACTCTGA AGANCTCTAC
 AGTCGGAATT NCGGCCCGAA GNCAACTTTC GNAACAAGAG AGGGCAGATG NCAGAAAACC CATACTCAGA GGT

SEQ ID NO:1562: (Length of Sequence = 320 Nucleotides)

AAACGGCCG CGAACCGCAG TATCATGCTG GCCAAGAAGA TCATCATTAA GGACGGAGGC ACGCCTCAAG GAATAGGTTT
 TCCTAGTGT TATCAGCAG TTATCGTCAT CTTTTTGGAG TTTTGTCTT GGGGACTATT GACAGCACCC ACCTTGGTGG
 TATTACATGA AACCTTTCCT AAACATACAG TGTGTAACAG TTCTAATACA GCAAATTTAA TACAATTTTT TATTAGATCA
 AAATTCATA GAATGTTTCA TATGTTTTAA GGAAGGTTCA TTGAATTTCT TCTTTTCAAT GGAAGTCTT ATTTGGAAAA

SEQ ID NO:1563: (Length of Sequence = 299 Nucleotides)

GCACAAGCAT GACCTGAACC TGTCACCTGC CCGTACATAT TTCACATTTC TATAGTTTTT TGTGATTCTG CCTGCATTAA
 ATCATCATCA CCAACAAAA TAGTTCCTCT GAAGAATTAT TTTTACTAG GATTCTCAGG NTATCTCCTC TCAATCTCTA
 TTGGGATCAC TCCACTCTGA CTGTGACACT CATTTCCTCA CTGATGTAGC TGTTCICAAG TTAGAAGTTA AGTTCTCAGT
 CTTCAATTTA TCAGTCATCT CAGCAGCATT CATTATGGTT CAGGCACTCC CTCCTATTT

SEQ ID NO:1564: (Length of Sequence = 325 Nucleotides)

CAGATGGNTC AGTTCATACT CTGGCAGTTA ATTTTATTTT CTCTAAATAA AAATGGACAG GTTAATTTAT TAAGCAGCTG
 TGTATCAAT ATGGTACGTG TGTGTNCTTG TATAGATAGA TGTATATGTA CATAcataac TATACATTTT NCTGGACACA
 TAATATTINA GGTGCCATTT GTATGCTAGA CACTGTCTTA CCATCAGTAA AAAAGCACTG CCCTGTTTTA CTGTTGATTA
 AAAACAAAAT TCTGAAAATA GTGANCAATG AGGCTTACAA CATTGTGTAC AGGNTAAGGN ATCTCAATTT AGGAAAATGT
 TGTCA

SEQ ID NO:1565: (Length of Sequence = 382 Nucleotides)

TTTTTTTTTA TATTAGTGCC TGCTTTTTAA AAGTTTATTT TACATTTTAA ATACAGTATT TTTCTCATAA AAAAAAATC
 CAGGAAGTGC CTAATCCAT GGTTCCTATA CCATATGTAC ATGAAAGCTG ACAGAGAGCC TGACAAATGT TCTGGATGTA
 ACAGTATGAA CACCTATGAG CTGGGACTAC TTCTGANTCA AAATTAATAA ACACAAATTA AGCACTGCTT AAGAAAAA
 AAATCCAGTT TCTGAACAAC CAAAAGAGAA CAGAGTTAGA TATGTACAAA ACCAGGTATT AAAAANCAGN AAGGAATACA
 GCACACAAA ACTCAACAN CCCATATGTA GTGAAGTGT TACTGTGAG TTAATGAAAA CC

SEQ ID NO:1566: (Length of Sequence = 305 Nucleotides)

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GCACTGTGGC TAATTGTAGC TCAAAGATC TGCAGAGCTC CCAGGGCGGA CAGCAGCCTC GGGTGCAATC CTGGAGCCCC
CCAGTGAGGG GTATACCTCA NITACCATGT GCCAAGCAT TATACAATA TGAAGGAAAA GAGCCTGGAG ACCTTAAATT
CAGCAAAGGT GACATCATCA TTTTNCGAAG ACAAGTGGAT GAAAATTGGT ACCATGGGGA AGTCAATGGA ATCCATGGCT
TTTTTCCCCA CCAACTTTGT GCAGATTATT AAACCGTTAC CTCAGCCCC ANTCAGTGC AAAGC

SEQ ID NO:1567: (Length of Sequence = 292 Nucleotides)

GATTTCCCTG GGAAGACAA CATCACCAGC AAATGGATGA TTGTCAACTG GGGAGCCATT GACTCTCCAC TTGATTGTGG
GTTGAGGTTT TNCCTCAGCC TCACATAACA AGATGCCATT GCTTCCGGTG CTATACACAG CACTCTGAGG CTTCTTTGTC
CAGCGAGGAG GCTCTTCTAC TATAACGTGA AAATCGTGAG TGGCTGTTC CAAGAAATTG CTGGCTGTGC AGCGATAATT
TCCTTTGTCC TGGTAGGAGA CATNCTCTAT CTTCAAAGTC TTGCCATAAT TT

SEQ ID NO:1568: (Length of Sequence = 204 Nucleotides)

ACCTACTCAG GAGGCTGAGG CAGGAGAATA GCTTGAACCC AGGAAGCGGA GGTTCAGTGC AGCGAGGTC ATGCCACTGC
ACTCCAGCAT GGGCAATAGA GCGNGACTCT NTCCCCCGG AAAAAAGAA CAAGGGCTAA NITCAAATCA AATTTTCCCT
GTACCCTAAG AANAATAATT AGGNCGGGAG ATGTTTGACT AAGT

SEQ ID NO:1569: (Length of Sequence = 362 Nucleotides)

CACAAAGCCA AGTACAGAAC CACAGAATGA AGCCGTCACA AATGTTGAAT CCCAAACAC TAACAGGAAC AACTCGTATT
TCCATTAAATC AAGATTTTAG TATACCAAAT TTTCTAGTTT TTATCTCATG GAAATATAAG GGTATTTTAT CTTTGTATG
CTACTGAAGG GNAAACATCA TCATACAGCA ATGAATACTT CAAGGGNCIT GTTGATCTCT CTATTATTGA CAGTGGGGTG
TTAAAGTCTC CCACTATTAT TGTGTGGGNG GCTACANCNC TTTGTAGGGC TCTAAGAAGG TGTTTATGA ATCTGGGGGC
TCCTCTTTGG GNGCATATAT AATTTAGGGT AGTTAGTTCT CC

SEQ ID NO:1570: (Length of Sequence = 262 Nucleotides)

TGCTAAATGA TAGANGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT
GATCTNITGT GGTAGAAGTA AGAAGTGGGG TACCCTCTGG AGGAAGAGAA TTNCTTTGA AGTGGCATGA GAGGATTTT
TTGGCTAATG AAATTATTTT NATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TNCAAAACAT CATGGNACCA
TTCATCCAAG TCCTGTGCAT TT

SEQ ID NO:1571: (Length of Sequence = 402 Nucleotides)

TGCTAAATGA TAGAAGACAG ATTCAAAGTT GTAGTTACTG CGTAACTTTA TTTATGAGGC ATTTTAGAAT AGGCAAACT
GATCTGTTGT GGTAGAAGTA AGAAGTGGGG TACCNCCTGG AGGAAGAGAA TTNCTTTGA AGTGGCATGA GAGGATTTGT
TTGGCTAATG AAATTATTTT TATATCTGAG TAGGGTTGTG GGTACACAG TTTAGGCATT TGTCAAACT CATGGAACCA
TTCATCCAAG TCCTGTGCAT TTTACTGTGT GAAAATTATA TCTCGACTTT TTTCAAAAAA GGAAAAATA CTTAATTATA
ATATAGCATT TATGNATTAA AATAATCCCN TTATGTAAAA ATATTTTATT GGNITGGTCA AGATTATGA TTGCAACCA
CC

SEQ ID NO:1572: (Length of Sequence = 417 Nucleotides)

CTACCAGCCC GTTTTCACAA CTAGCAGCAA ATCCTGAAGC ATCCTTGGCC AACCGCAACA GCATGGTGAG CAGAGGCATG
ACAGGAAACA TAGGAGGACA GTTTGGCACT GGAATCAATC CTCAGATGCA GCAGAATGTN TTCCAGTATC CAGGAGCAGG
AATGGTTCCC CAAGGTGAGG CCAACTTTGC TCCATCTCTA AGCCCTGGGA GCTCCATGGT GCCGATGCCA ATCCCTCCTC
CTCAGAGTTC TCTTCTCCAG CAAACTCCAC CTGCCTCCGG GGTATCAGTC ACCAGACATG AAGGCCTGGC AGCAAGGAGC

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GATAGGAAAC AACAAATGTGT TCAGTCAAGC TGTCCAGAAC CAGNCCACGG CTGCACAGCC AGNGTATAC AACAACTGA
GCATCACCGT TTTCAT

SEQ ID NO:1573: (Length of Sequence = 368 Nucleotides)

CAAATAAGTT AGAAACATGA AAAATCTTA GAACTTTGA TGAAAAATTA AATTTACTAC TAATACCCAC CTGCAATAAT
TTCCCGTAGT TTGGGATCTA GGTITACAGT GCATGGCAA AAGACTTTTA CATCTCGAGC CACAAGAACT GGGGTCCTTG
AAGACAAAA CACTTCAAAA TTCTTATAT CTCCATCAAT TTCAAGAAGT GGCTCAACAT CCTTAGTGT TGAATATTC
TTTGATATTC TTTCGTAGAT GGTITTTAAT GTCATTTGAT CTGGAATACC TTCAGTCTCT TCCAAATATA ATATGAGNCA
TGAAGTCCGG TATGGCCACT GTCAGTAAG GTTGATCCCG CTAGCAAG

SEQ ID NO:1574: (Length of Sequence = 397 Nucleotides)

AATTTTAAGC AAATGTTATG TTTAAAGACT GTTTTGATGA AAACTTTTAG AATTGAGTTA GTAGCAGAAT ACATAGCTAA
ATGTACTTIN CTACAAATAG AATGAGATAT TTGATTTAA ATATNCTTT CCTCTTGAAA TAGGATGTTA GATAGGGACA
TCTCATTTTA CCTATCAAGT TCTGAGTCTT GCTTTAGAAC TACTTCTTTT AACTTAATIN CATGCATACA CTGGAAGACA
ATAATATGGC TTTTAACTG CATTATCTTT AGTTGAACT GATGGAGAAA CAAAATACT GCTTATACCA TATTGGGTAC
ATGCTGAATG TTTTAAAGA CTAGCCAAA CTGACATTTT TTAAATTAATAA ATAAGATGTT TTAGTTTCAA ATTAGAG

SEQ ID NO:1575: (Length of Sequence = 296 Nucleotides)

GGACTCAGCC TTCGCGGCA TCTGCATGAT GATCGGTGTC AACCCGGGG GCGTTGTGCA GGTGGGGCA GCTGGGCTCT
NAGGGCAGGC GCGGCNCTG GGCTCGGGCG GCCCTCACC TGGGATCCGT CACGTTTCAG GACTTTATTT TCTTCTTCAA
TGNTGTAGCC TCTGGGTGA GCCCGAAGAT NACCTTCGGG ACATGTTTAA TAAGGTGAGG CTCTGTCTGG GCCCTGATCT
AGTTCCGGGA GCAGGCAGGA NGTGAGACCA TCTGTAAACA ATNGGGGCTN GGGATT

SEQ ID NO:1576: (Length of Sequence = 289 Nucleotides)

CTTTATGAAG TAGTAATTC TGAGAGGTGT GCTGGCTGAA AACATAATAG GTTCTGGAAG AGCCAGGTAA ATGCCTGENT
TTAGACATGC AGGGGTAAAT CAAAATAATT TAGGAGCGTT TTCAGCTGGT GAGCCTCATA TGGGATCTTC GAACCCGTGG
CGAGAAGAAA ACCGGTGTIT AGGNAGCACC AGGCACAGTG CTCGGAAGGG AGAGGCTNGC CGGCCAGTGT GCAGCTCAGC
TNITTCGAGG ACGGAACCCG CAGCCTNGCT GINTCCAGC AGACCCAGG

SEQ ID NO:1577: (Length of Sequence = 320 Nucleotides)

CAGACTCTAC TCAGATTTC CGCCTATGCC CCTAGGACAG AGCTGGAAGG GAAGGAGGCT GGGCCTATTT AGTCATAATG
CCTCCCCACC AGGTCTAGCT TTCAITCATC CATGAACCT CACCAAGGG CCAAGAACTG AGTTCACTGC ACCCTGGACC
CCTGTTGAGG TAGGAGAAGT AGACGTTGGG AGCAAGGTT CTCTCCTAAT TTINTTGCAT CCCCTCAGTG CCCAGCACAG
CTCCGGATAC AGGGCAGGTT CACAGTCAGC GGTTCACCT GGNCTGTGT ATGCACCTAA GGAAAAGNCT CAATTTTCT

SEQ ID NO:1578: (Length of Sequence = 217 Nucleotides)

AATCAGGAGA ACTGTTAGAG CCATACCAGA GAAAATCACA AGAAAGGCAG GACTGCAAAG NTCTAGTGA GGCTGTGAGA
AAAGGTAAAC CCTTCTTAA GTCATCTGC CCTTTAGTT ACCACTGGCT GTCTCACTCC TGGATTTATG TGAATCCCTT
AGCTATACTT TCCANCCCC CTGGGATGTT CCCCCTCAT CCTATTCACT CACAAAG

SEQ ID NO:1579: (Length of Sequence = 375 Nucleotides)

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TTGGTCCTCA AGTCCTATTT TAAAATTTTG TCAATTAGAG GACTCTTGGT TCTCTTGGTT GACTCATTCT CTGCTGATTT
 GTTCTCTGTA CTTCAGCAA ATAAAGTGCA GTCATTGAGA ATGTCCTGT GTCAGTGTGA TGTATCAAGG GATCTTCATG
 TTAATATCTG TTTCTCTGAC AACTGTGTTT TATACTTTGT ACTGTAGCTT TCATTGGAGA AGCCCTGGGC TCATAAGAGT
 GATTTGTGT GGCATTTCTT TATGGAACAT AAGCTTTTGA AATATACTTG AGGTAAATAT TCATGGGAGA CATCCAAATG
 CAGTAATGAG AGTACAATGA AGACAGCATT TTNGACTTTG GAAACCTGAG TTCAA

SEQ ID NO:1580: (Length of Sequence = 325 Nucleotides)

TCTNCTGATG CACCCATGAG AGGGGAGACA GCACTGTGCT CTCTCGCAGT TTTCCCTTAA CACTCCCTTA TCTGCAGACT
 TAAACTAGGA GCCCTGGCA GAGTCCTACC TCCAGAATCA CAAAAGTGTA GAAGGAAAGT GAGAGACATT GATTGACTTT
 ATATCTGACT TACTAGTTTC CTAAGGCAGA GATTTTTTAG AAAACTGCCT GGCCTGGCCC AGCCAGGAT AGATAGGGAT
 GGGTAAGAAG CCCTTNAGAA TGTGGCAGTA TGTGGCTTNG ACTTCAGACT TGTGAGATTA GGGGTTTTAT AGGGGTTTTT
 TTAGC

SEQ ID NO:1581: (Length of Sequence = 402 Nucleotides)

GCAGATCAAG AAAAAGTTTC AGCCAATGAA CAAGATCGAG AGGAGCATAC TACATGATGT GGTGGAAGTG GCTGGCCTGA
 CATCCTTCTC CTTTGGGGAA GATGATGACT GTGCTATGT CATGNTCTTC AAAAAGGAGT TTGCACCTTC AGATGAAGAG
 CTAGACTCTT ACCGTCGTGG AGAGGAATGG GACCCCCAGA AGGCTGAGGA GAAGCGGAAG TTGAAAGGAG CTGGCCAGGA
 GGCAAGAGGA GGAGGCAGCC CAGCAGGGGC CTGTGGTGGT GAGCCCTGCC AGCGACTACA AGGACAAGTN CAGCCACCTC
 ATCGGCAAGG GAGCAGCCAA AGACGGAGNC CACATTCTAC AAGGCCAATA AAGACCTACG GCTTTTTTCC CNTGGCCAAT
 AA

SEQ ID NO:1582: (Length of Sequence = 286 Nucleotides)

TCTTAGTTGA TTAACAACAA TAATTGAAAT AAAAAATTAT GTTTATNCTT ACATGTATGC CATGTAGCAC TTTAAGGAGA
 TGAGTTTATG AAATTCATGA ATGAGAGGAT GATGTAAGTT TAAAATCAT TATTTTAGTT GCTTTATTCT NCTATTTTAA
 ATTCAATAAT AACACAGGTG GCCTGTATTT TGAAAAGAGC CCTTTCCTCC ATTTGANCIT TATAAACACT GAGGCAGTAG
 GTGTAAATA TTATCTCCAC TTTATATTTG AAGGAAATGG GGGCCA

SEQ ID NO:1583: (Length of Sequence = 323 Nucleotides)

CIAATTTTGT TATTTTGTAGT AGAGATGGGG TTTCACCATG TTGGCCAGAC TGGTCTCAA CTCTGACCT CAGGTGATCC
 GCCTGCCTTG GCCTCCCAA GTGCCAGGNT TATAGGCATG AGCCACCAGC CCTGGCCTTC CAGTTGTGAC CTGTGTAGGA
 TACTGCTTTA ATTCATTTTC CCATTGAAAA TAAGCATGAA AATAACTGTG CAGTCATAAT TGTGGTATTT NCTGTNAAGG
 AAAGTGGCAG GGCTCTGAGT GTTTATCGGG AGACCTAACC CAGTNTCAGA GGGGAAGTCA GAAGGCTTAC TNCCCAATGG
 GGG

SEQ ID NO:1584: (Length of Sequence = 301 Nucleotides)

AAATACTTGT AAATCACTTT ATGTTTCTGA GTAAGGAAGT AATGAAACAT ACGTACAAGT AATCAGTAAG ACTTGTTAGA
 CAGCTGTTGT TCAGGATGCC TTAAAAGGG CTGGTAATGC AGTTACATTC TAACAGAGAA GTCCAACTA CAGGTAAGAA
 CTACGGCTTG TACTGTGAAA AATGTGCAGC TTTTCAGTTA TAAACTAGT TGAACACTGG TTTACAAGGT AATCGTAGG
 AACAGAGAGA CTGTAGGAAA ATATTCCAGC ACTTTGAGTT GTGTTTTGGC AGCAGCATTT G

SEQ ID NO:1585: (Length of Sequence = 328 Nucleotides)

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AAATACTGAT TTCAGACCTT CTGCTCTAG AAGTCAAAT ACTTTCCCC TGACAAGAGG TAAGATAAGG TAGAAAATAG
 AAACACTGGA AGAGAGATCT GGACTCCTAA AGCTGTGATG CCATAGTGTA GTGGGGGGGG GTGCGTGAGG AAGTCAGGAA
 TGCCGCAATG TTAAAGGGAA AGGGAAGATG GAGCAAAGTG AGTCCCAGGG CCAGCAGGGG GCCAGCCTTN TTGACAGGG
 GCAGGGGAGA AAAGGCCAGA CTTCCTATAC ACATGCTAGA GGGGAGGGCT AGTGTGAAG GGTAAATAGT TGAAGGAGTC
 CACGGGCT

SEQ ID NO:1586: (Length of Sequence = 256 Nucleotides)

GGACTATCTG TATGGCAGAC TCATCACTT TGAGAAGAGG AGGAAGGAGT TCGAGGTGAT CGCCAGATC AAGCTGCTGC
 AGTCGGCCTG CAACAACCTAC AGCATTGCGC CAGATGAGCA ATTTGGGGCC TGGTTCGGG CCGTGGAGCG CTCAGCGAGA
 CTNAGAGCTA CAACCTGTG TCGGAGCTGG AGCCCCATC CGAGTCAGCC AGCAACACCC TCAGGACCAA GAAGAACACA
 GCCATTINCA AGCGCT

SEQ ID NO:1587: (Length of Sequence = 371 Nucleotides)

GGATTCTACA GGCATAGACT TACACGAGTT TCTGATTAA ACATTAAAGA ATAATTCCAG GGACAGGATG ATACTTTTGA
 AAATGGAGCA GGAAATATT GATTTCATTG CTGACAACAA TAATCATIAT AAAAAGTTCC CTCAGATGTC ATCGTATCAG
 AGGATGCTTG TCCATCGAGT GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGNAAATCTG TTATCATCAA
 CAAGNCCAGC AGCACCAGAA TMTTACCAGC CAGTCTGTGC TNGTCAACAG GGGNTTCCAA GGGCTAATAG GAGTNCAGCA
 GCCCACTICA GAGTCAGACG TGGTTAAATN ACCCCCAAGG GACTCCGGTG C

SEQ ID NO:1588: (Length of Sequence = 314 Nucleotides)

CACACAGGAT TCCATAATAC TCCTGCTGTG TTCTGAATAT TTGTACTTCA CATGGGATTA CTGAACACTA CTACGAGATT
 CTGAATGTTT GINGCTCACA TAGGATTCCA AAATGCCCT GCTGTGTTCT GTTTGTCCCT CACATAGGGT CACTGCTGCT
 GGGTTCTCAG TGTTTCTCAC TCACATAGAA TTCCAGNACA CTGCGAAGAA TTTCTGAATG GTTTTCTGTA ACATAGTATT
 CCAGCACACT CTCGCTGTG TTGAATGTT TGTCCCTCAC ATAGGATTCC AGAACACTTC TGCTGATGTC TTGA

SEQ ID NO:1589: (Length of Sequence = 256 Nucleotides)

GACGAGGCAC CATGCGTGAN ATCGTGACACA TCCAGNGGG CCANTNCGGC AACCAGATCG GNGCCAAGTT TTGGGAGGTC
 ATCAGTGATG AGCATGGAT TGACCCCACT GGCAGTTACC ATGGAGACAG TGATTGTCAG CTNGAGAGAN TCAATGTTTA
 CTACAATGAA GCCACTGGTA ACAAATATGT TCCTCGGGCC ATCCTCGTGG ATCTGGAGCC AGGCACGATG GATTNGTTA
 GGTCTNGACC ATTCGG

SEQ ID NO:1590: (Length of Sequence = 313 Nucleotides)

GGCAACAAGC CAAGTAGCAA AGATATAAGC AACAAATCAA TGGAGCCTGA AATATGATAA GAGCATACAT GCACTTTAAC
 AATAATTTTG ATACTGGAAT GATTATTTCA GAAGCAATAT TTTTNCIGAA AAGCATGGT CTTCTGTACA GAAAAATAAA
 AAAGTGAGCT GCCACTATA GTGAATTAAG AGCTGTGGG TGAAAGGGTC TCTTTTATAG CCAGTTTGAA ATTTTTCATA
 TAATAAAAAC AGTATGTAAA TATTATATAT ATATACACAC ATACATATAT ATGCATATAT GTACATATTT CTG

SEQ ID NO:1591: (Length of Sequence = 296 Nucleotides)

TTTINAGTCT CGGCCTCACA ATTCAGCGAC TGCAGCTCG CCAAGGCCAG GGGAGACCTG GGTGCCTTCA GCAAAGGTCA
 GATGCAGAAG CCATTTGAAG ACCCCTGGTT TGCGCGCGG ACGGGGAGA TGAGCGGGAC AGTGTTCACG GATTCCGGCA
 TCCACGTCA TGTCCGCACG GAGTAGGATT NGGGGCCAG GCCTGGCCTC GGGGTTCCTC CGCTGCCTGC TGGCCAGTGG
 CNGAACCCCC CANTNCTGC CACTNTACA CAGTATTTAT TGTTACCAAA ATGGCT

SEQ ID NO:1592: (Length of Sequence = 299 Nucleotides)

GGAATCCCA AATTATGGGT AGTCCAAAAG CCAAAGGCAA TGTGAGGAAG GACACTCCCC AGATAAGAAC AAAACAGAA
ATCTGTATGT NCTATGTGTT ACACACAGTT GCGAATAATC AGATGTACAC ACATGATGCA AAGGCACGCC GCTACACATT
TATGTGATAT TCAGACATAT GTTCAAATAG AGGAGGTGAA TATCTTTTAA TAAATACAAT TTAGCAAGTA CAAGAATGCT
GATCAGCTGC AGCTCAAGAG GAAAGGGGGG AAAAAATCTT ATGGGAAATT ATTAATACT

SEQ ID NO:1593: (Length of Sequence = 378 Nucleotides)

CCAGTTTGGT GATTCTNTTC TGTGTCTGCT GATCTATTGG CGTGAGAAGC TGAAAGTGAC CAGCCAACAG CCATAACTTT
ATGTTTAGTG AGACTCATAA TGGGTCTCCT GCTGGAAGAT CTCCCCTCTA AGANTCAGTA ATTCTAGACC TGCAAAGTTT
GAAGTTGTAA GCATGGGAAA CACAAATTC CCAAATAGGT CCAGATAGTG ATAGAGAATA AGACACTTAC TTGCCTACTT
CCATTCTCA GCCCAGATAT TCTACCTATA GTGGACATGC CCATGCAATG GGCTATTGGG TTTGAGGTAT ACATTGCAGG
GTTGAAGGAC AGTGCCTCAT CCTTGCAAGG GTGCCCTTTN CCAGTTGGCA CCACAGCT

SEQ ID NO:1594: (Length of Sequence = 353 Nucleotides)

ATTTTTCGG GGGAGGTGTA TGTAGATGAG AGTCTATGAT ATAAAGCAGT AAAAAAATG CTGTTGTATA GGGATGCAAT
ATTTTCGGTG TAAGGAAGAG GTTTTAATTC ATAAATAGA AAACAGGTTG GAGAAGTCTT TAGGAAAGGG ATACCTTTTG
GGTTGGCTTT TGAAGGAGAA GTTTATACCC AGGTTCAAGC TGAAGGGCTA AGTGAGTAAC TGAAAGGGCT GAGCTATTTG
GATTACCATG AGGAATTTGT GATGGCTGGG AATGTAGGGT GTGTGACCAG ATGTGGAATC ACAGAGGGAG CCCACAGAGG
AGCTTCGGCA CATAANCTAA AGAGTTTAAT TTT

SEQ ID NO:1595: (Length of Sequence = 343 Nucleotides)

CAATATATTA AATCTATTTT GTAGCTGGAC TTCCTTACA ATGTAACAGA ACATTGAATA TTAGATTCTG AGCATATTCA
TGCAAACITC CACTTTGGTG AAAGTGATGA CAGTGGAGTT CTGGAAGACA ATTTTCCTTG TAAACACCAA GTTTTGCACT
TTGGACTATG CTCTCAAGAT AGAAACTTAC GTGAGTGGAA AAAGAAAATG TATAAATGTG AACAAATATT CCTTACCACA
CAGAATAACC CTGGCAACAA ACAATATCCC CAAGTCTGG GTNATTCAAT CCTCACCGTG GGCAGGAAGG GTGAAGGAGG
CTGCACCTGG GNCACAGCCT TTT

SEQ ID NO:1596: (Length of Sequence = 373 Nucleotides)

TAGTCAGTAA TTGCTGCACT AGAGCTAAAT AAAAGACATA AATATCTAAG GCACCTACTG GAATAAACAT CTTATTTCCG
CTAAGAGGTT GGCTAGGGAA GCTCTGCTTC AGAGTATGGG TTGAGTATAA GCCTGINCCA CATGTCTTTT GCTCTGGGAC
CAGGAGTTGT GCAGCCCATC CTTTCTCAA GACAAAAGCT GAGCCAAGCA AGGACATTTA AAGCTTCACT TCTGCTCACA
TCATATCTAT TGENCAAACA TTCCATTGGG CCAAAGCAAA TCACATGGGC CAAGTCAAGC ATCAGTAGGT CTGGGGGAAT
ATTCTTTTCT CTACTCTTGG ACACATGGGA AAGGGTTATG CATACTAATT CTT

SEQ ID NO:1597: (Length of Sequence = 276 Nucleotides)

GATGTCCAT ACTTGATTAT TAGTTTCTAA AGAAAGTATT CTTAATTCCA AGCCTAATAG CTCTTATGTC ATTAGTTTCT
AGTGCAGAGA AATGTACTTG ATGAATTTT GTTGACTTTT TTTTGTGCTA GCCAATATGA AGGTTGCCAG TCCCTGCCAA
AATCAGCACT AAACTATTT TNCATGAGTA ATAACAATA TATTCTTTT TAAATAGCAC CTTTAAACCA AAAATCTTAA
GCCATATATA ACATTCACTC AACANTACAC TCAAAA

SEQ ID NO:1598: (Length of Sequence = 355 Nucleotides)

365

TGTATTGCTA ACTGTCCTTG TAACTAATTT ATGTATACNC TAAATGGTAT AGCATGTGAT TTTATTATAG TTGATTAACT
 TTGTAATINC TGTAACIGCA TOGATATCCC AGTCTACCTG GAAAATTAAG TCTATTAAAC ATAGTTGCTG TGGGAGACAG
 TACTATTGCC AACTGAAGCC TGAATCCTTC ATTTATTTTG TCCCCAGTTA CAGAGTGGAG GTTTAGAGGA GTGGGGTTAG
 ATAATGCTCA GATTAGAAAT ACAAAGGCAG CTGTCAGATC CTCCCATTTT ATTIGTTTGA AGGAACTGAG GTTGGTAAAC
 ATCACAAGNG CTAGTTAACT GGTGAGTAGC AGCCC

SEQ ID NO:1599: (Length of Sequence = 313 Nucleotides)

GGAGGTGAAG GACACAGTGG ATGGGCAGAG GNTCCTGGAG AAGAAGGGCA GTNCTGCNCT CAAGGACCTC AAGCGGCANT
 GCATTGAGG CGGAAACGGG CAGATAAGCT GCAGGAGCGA CTNCAGGACA TCCTCACTAA CAGCAAGAGC CGCTCAGGCC
 TINAGGAGCT GGTTCCTCA GAGATGAACT CACCAAGCCG GACCCAGACA GGGGACAGCA GTAGCATCTC CTCCTTCAGC
 TACCGGGAGA TCCTTCGGGA AAAGGAGGAG CTTCGGCTTG TTCCAGCCAG GTCCTTATCC AGCAGNCCIN AAG

SEQ ID NO:1600: (Length of Sequence = 277 Nucleotides)

AGTTCACAGA ACTCCAATTC TTTATTATC ACAGCTTGCT CACAATGACA TACAGGAAAA TAGCACTAAT GAAGAGTAAA
 TATGCAGGCA GCAACCTTCA GGAGTTGGGA GTTGGGGAGA AACGACTTCA AAACGCGAT AGGTACTTAT GGTGGGTATC
 TGGTGATTCT TAGTTGGCAC AAATGCCCTG CCTAGCCCCC TTAAGTCGT CANITTCACA GATGGAGTGT TTTGTTGTTG
 GTGTTGTTAG TAGGCAGGAT TGCCTTACAC TGGGGGA

SEQ ID NO:1601: (Length of Sequence = 228 Nucleotides)

TTGAGACCAT CCAGGCTAAC ACGGTGAAC CCGTCTCTA CTAAAAATCC AAAAAAAAAA AAAAAAATT AGCCGGGGGT
 GGTGGCTTGC GCCTGAAGTC CCAGCCACTA AGGAGGCTGA GGCAGGAGAA TGGCATGAAC CTGGGAGGCG GAGTTGCAGT
 GAGCCGAGAT CGCGCCACTG CACTCCAGCC TCGGCGACAA AGCAAGACTC TGCTCAAAA AAAAAAA

SEQ ID NO:1602: (Length of Sequence = 299 Nucleotides)

GGAAGTCCTT TCTAATGAAG AGGGGAGATG TTATCGATTA TNCATCATCA GGGGTTTCCA CCAACGATGC TTCCCCCTG
 GTTCCTATCA CTGAAGAAGA TGAAAAATCA GATCAGTCAG GCAGTAAGCT TCTCCAGGC AAGAAATCTT CCGAAAGTTC
 AAGCCTCTTC CAGACAGATT TGAAGCTTAA GGAAGTGGG CTGCGCTATC AAAAACTCCC AAGTGACGAG GATGAATCTG
 GCACAGAAGA ATCAGATAAC ACTCCACTGC TCAAAGGATG ACAAAGACAG NAAAGCCGA

SEQ ID NO:1603: (Length of Sequence = 263 Nucleotides)

AAGGCAAGAA ATTAGCCTTG TTAAGAATTT TAAGTGTAA GGAAGCCAT TAGAGGGTAT TAAACAAGGA AAGATGTGAT
 GTGACTTATA TTCTAATAGG ATTGCCTTGA TTCACCTATG GAGAATGGAT TNNITGGATC TCAGTACTGG GATACTGAGA
 TCCCAGGGG AAAATATCAC TAAGGTTGGA ATTGCTTTTC TGCAATTAA AAGCAATTCN CTTTTTCCTT GAAACCTCCA
 TGTGATGTTA ATTAGGGTAA ATG

SEQ ID NO:1604: (Length of Sequence = 260 Nucleotides)

ATGAAGACGT ACGACTTATT TTTGTGTTCT GAACATAAGT NCTTGTGAC ATAAAATGTG CTATGAATGT TGAGTTTAA
 ATACTGAGC GTGACTCAC GCCTGTAATC CCAGCACTTC GGGAGGCCAA GGCGGGCGGT TCACCTGAGG TCAGGAGTTC
 GAAACCACTC TGGCAAACAT GGTGAAAACC CCGTCTCTAC TAAAAATACA AAAGTAGCGG GGTGTCGTGG CGTATGCTGG
 TAATCCTAGG GTTCCTGTCA

SEQ ID NO:1605: (Length of Sequence = 290 Nucleotides)

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GACAGACATT CAAACCATGG CAGGTGGCAA GAAGTATCAA ACTACTAGAT CCTTGGGATT GTNCTTTGTA CTGGGGTGTA
 TTTTINCCAA CAATCCTAAA AATCATATGA ATAGAGATAG CAATATATAT CTNACCCATT TGGAAATGCA CAGAGATTCA
 GGAGTGITCA CATAGAAACA GAAGATCATT GGCTTTTGTG CATTCCCAAC GCCAGNAATC TGTTTTCCTT GACTCTTTT
 GATCTGTGTT TCTGAATGTA TTGATATACT GCGCCTACTG GGTGTGCAGG

SEQ ID NO:1606: (Length of Sequence = 290 Nucleotides)

CTCACTTGGG TACTACAGTG TGAAGCTGA GTGCATATGG TATATTINAT TCATTTTGT AAAGCGTTCT GTTTGTGTT
 TACTAATTGG GATGTCATAG TACTTGGCTG CCGGGTTTGT TTGTTTTTGG GGAAATTTTG AAAAGTGGAG TTGATATTAA
 AAATAAATGT GTATGTGTGT ACATATATAT ACACACACAT ACACATATAT TATGCAATGT GTGAAAAGAA TTGGCTAGAT
 AGGGGATTTT CCTGAACACT GCAAAAATAG AACGTAGCAA AATGGCTTCA

SEQ ID NO:1607: (Length of Sequence = 365 Nucleotides)

GCTCCACTGA CCAGCTGTTT CCTGTCTCTC CTCTCCTTG AGCCTCCCTC TTCCCTGAGA CACAATAATA TTAAAATTG
 GCCAATCAAT AACTCAACAA TGGTGTCTAA TAATTGTCTA GTGCGGAGGA AGAGGCATAC ATCTCTCACT TTAAATCAAA
 AGCTAGAAAT GATTAAGCTT AGTGAGGAAG GCATGTCAAA AGCCGAGACA GACCAAAAGC TAGGCCTTTT GTGCCAGTTA
 GCTAAGATGT GACTATAAAG AAAAGCTGTC GAGGGAAATT TAGAATGGTA CTCCAGGGGA ACACACAATG ATAAGGAAGC
 AAACAGCCTT ACTACTNGGA TATGGGGAAA AGTTTTTCAGC TTGCG

SEQ ID NO:1608: (Length of Sequence = 294 Nucleotides)

CTCAGGAAGC CTCTCTTCT TCACCTACCA TTACTAACTC TCCAAGCATA GAAATCCCTG GGAATTGCGA GAATAACTCC
 CACTATTTTA AAATTTATAT TCAGATTGT TTGTTTCAT AAGACACATC AAACAGGCCT ATACAAAAGG TTTAGGAAAA
 GAAAACAATG GTGAGTCCCG GCGCTCTTCG AATTCACCTG CACCTCATGC AAGTNTAGGA AGGCACGCTG GATCGTCTAT
 CTGATTCCAA AGCTGTCTT TGCCATCTCA TCCCTTGNC TGCCCCCAA CCT

SEQ ID NO:1609: (Length of Sequence = 393 Nucleotides)

CAAAAGCTAA CTCTTAATAA GAAGATGAGG AAATAAAATC AGTTCAAAG GGAGGAATAT GCATTCCCAG AATTAAAGGA
 CCCCCGGTCC AGTTTIGAGGA GGAATCTTGG CCAGATACAA GCGCCTTGTA TAATNCTCAA GAGGGAGGAG ACCTTATTIN
 CTCTTNGAG GTGCTAGTA TGAAANCTGC TTATTTTGAA ATGTGATCT AGCCATTATC AGNGCAACT GCAGATAATT
 CCCATTTACA GAGGAATGCT GCTAACAGGT GTGGGNGGGA GCAGCGACAN CGNAAAATTC TGCTGTATA GTTCACGTTT
 ATGTTGGTTT TCTTTGAAAA TCAAGGGGTA GAAAATTTCA TGCTCTAGA GGAGAGAGAG GAAACACATG AGG

SEQ ID NO:1610: (Length of Sequence = 464 Nucleotides)

GTCTGTATT TATTAAATG CCTTACTAC TTTTAGATGG CCATACGTTT TCAAAAGCAA AGACCTAGTA AGCCATTTGT
 GTTCATTTGC TAAGCTATCT TAGGTACAGG TCCAGATTAT AAATGTTACC TGCTAATCAG AGAGCAAAT TTTAAATTAA
 TCCTTGTAA ATCCACATTA AAAGAAAAG AAAGTTAGAA AAACACATAA ATTTCTTTTG TGATCCCACT ATTCAGGAAA
 ATCCATTGAA AAAGCAGATG ACTTATCCGT GTTAAATTTT TAAAGNCCCT ATTTAAACTG TCATGTAAAT TCTNATTTAT
 CTAATTTTTT AAAACACATA TAGNTTTTTA CTCTCCAGTT CCATAANTGN CTCANTCTG GTGANGGTCA TTACACAGN
 CATTACGNGG GCATATCGGN NTAAAANGGC CNTGCGGTCC TGNATCNGAG GNGGGGTAA GGTC

SEQ ID NO:1611: (Length of Sequence = 465 Nucleotides)

ATAATTTAAA GAAAAGAGAA TTCTACAATG TAAACCCCT TAATATAAGC TGTTTTAATA ATTGGAAAAC AGAATGANTA
 NTGTTTTNT TTGTCATGCC CAATTATTC ANCAAGTTTT TATTAATAAC TTGCTACATG GTAGGCACAG CTGTAGGTGT

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TGGAGATATA GAGGTAAACA AGTCTGACAT GATCTATGCT ACCACGGAGT TCTTATTTTC AAAGTGAAG GTAGAAAATA
 AATAAAATG ANCTAGAAGA GCAAAGTGCC TCTGAATGAG CATGCAGANG CATGTTTTCA AAATGTCTGT GNGTGGGATA
 AATAGATCAG CAACACACCA GGCCATGCAA TTINGCAGCA AATCACTTCT GCAGTCTAGC TGCTGTTTTT CCTACTCTGG
 AATCATACTC CCCCCTCGG TCATCTNIGC CAGTTTCTCT GNGCTTCACC CTACCCCTCN TTTTN

SEQ ID NO:1612: (Length of Sequence = 458 Nucleotides)

ATGAAATGA ACAACCTAA AGAGAAATGT TCTTACGTT CCACAGGAAC CAGCTTCTTC CACTGGGCCA CTAGGTCCCT
 GGCAAAGCTT CCAACATGCT CGTGTTTTCG CAAGCTATTT ACTGTTTTCC CAACCCAGT CTCCTAAAAT TTGACAAAGT
 AATTGTTAGA GGGGTCTGGA ACTAGGCTAA CGTTTTCTA AAGAAATAAG GCTTTCTACT TTGAGAACT CAACAAGCAA
 TACTTCCTTC CTACAACATA CCTGCAAAT CTTAACACTA AATTACTTTG TGTCTATGNC CCAAATCTCT AATGACACAC
 AGTAGCAAAG NGTACCAAGT TCAGAATTT AATAACAGNG GTNATTAGGG CAGGTGTTAG GGCCTAGNT AAGNGCTTTG
 CATCAGTTCT GGATCAGNCT TTAAATAAC CCTTAAGNG GGGNTNAGNC CCTTTTTT

SEQ ID NO:1613: (Length of Sequence = 322 Nucleotides)

ATGTGGAGAT TGTGTGTTGG CTAGGGCAGT CCAGAGGAGA GATATGTGGC AGGACAAGTC TCTACCCCTAT ACAAGTNCCT
 CCGGCAAGCC CTCAGCATAT GACATAGGCC CAGAGAAGGA TGCAAAGAT TCTGTTCATA AATTGTTTTT AAATATCAAA
 TAAATCATAT GTGCACATGC ACAACATGC CTTCACTACT GAGTAAACC AGACTCACCT TCAATATAT CAACAGTTTT
 NTAAGCGCC GTTAAAAATC AGGCATCGGA CCTCTGNTN CGAGAGCTGG TTINATGGGG AAGTTAGATC AACCCGTCAT
 CT

SEQ ID NO:1614: (Length of Sequence = 280 Nucleotides)

AGTATCAAGG GATAAATAT ATTTTTAATT TGTATTTC AITGAAATTT GTAAGNCCA TTTTATAATG TATTGCTTGC
 AAAATAAGTC ATGGAAGCCC TGAAAAATTA GTCAATTTC TAATCAAAGA AACATATATT AAAGACCTAC TATGCATGAG
 GCACCATGCT AATTGCTTTG AAGAAGACAA AGTTGAATTA GACAGGNTC CCGTTTACAA GNTATTTACA ATGCAAAGGG
 GGATACAAGA CATATAAAG GCTATGGAAC TGCCCTTCCG

SEQ ID NO:1615: (Length of Sequence = 393 Nucleotides)

GCGTGGTGGT GCGTGCTGT AAATCCCAGC TACTACGGAG TCTGAGGCAG GAAAATCCCT TGAACCAGGG AGTCGGAGGT
 TGCAGTGAGC CGAGAGCACG CCACTNCACT CCCGCTAGC GACAGANTGA GACTCCGTCT CAAAACAAA CAAAACAAA
 CAAAACCA AAAACACTGG GAGTCCAGT TTGTAGGAAA TCATTAGAT TTTATTATT GAGCTCCAGA ACGAGTGAGG
 ATGACCTGAT AATTTTGGTT TGGCTCAGGT TGTAATGTT TCTGTTTTG CTCGATGACT ACTAGAACAG TTCTCAAAT
 GTGTGGTGGG TAAGAATCAC CTGGGACTT TGACCAAGTN ACATGTCTAC AACACCCGGC CCCTACAGGC TCT

SEQ ID NO:1616: (Length of Sequence = 353 Nucleotides)

CCACCCAGC CTCCTGGAG CTATCCCTTT CTATCCCTT CCATCCAGCC CCTGGCCACC ACCATTATAT CTATTCTGGA
 ATTCCACAG GAAAAGCAG CACTTTATAA ATCAGCGAGG GATTACGGC GAAATGAGAC TGTTCGTGAG TNATGGCGTN
 CCGGGTGTCT TGCCGGTCT GGCCGCGNC GGGAGAGCCC GGGGCAGAGC AGAGGTGCTC ATCAGCACTG TAGGCCCGGA
 AGATTGNTG GTNCCGTTCC TGACCCGNC TAAGTCCCT GTCTGCAGC TGGATAGCGG CANCTANTIN TTCTCCACTA
 GTGCAATCTG CCGATATTT TTTTTGTTA TCT

SEQ ID NO:1617: (Length of Sequence = 227 Nucleotides)

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TTTCTTCCAT GCAACANICT GNAGACTTAA GTGGCTTTCT NCTGTACTNC CATAGAACCC ACCCAGTACA TACCTCCAGT
 GNGGCACTGA TTTTATGCTA TACATATGAC TGTGTGTTCA TCTCCTCCAC CAGACTGTGA GTCCCATTTGG AGTAGGAACT
 AAATTTTNTT CAACACTCTG TCTTCATCAC CTCGTGTAGT ATCTTGTACA GAGTAGATAA TGATTAA

SEQ ID NO:1618: (Length of Sequence = 362 Nucleotides)

GGAAGGTTTT TAATGCATGA NGTATACTTG TNATCCTGGA GGTGGGAAAA GATTTCAGTAA AGATAAAGTT TGGCAAAAAT
 GATTCTCTCC CTAGGATTGG GGGATATGTA AATCAAACCA AAGGCACATT CTGCAGCTCA CAGCAACCTT CATTTTTTGT
 CCTAGATTGA GTTATCTATC AAGAATCATT CATTCCTCTC CAGCCCTTGC AACTGTTTCC TATGACTTTG GACTTGGCCA
 TGCAACTTGC TTGGCCCAAT ACAATGTGAG TTAATGTGCT TTAAGTGCAT GTAATTAGGT CAGTCCCTCC CTCCTTGAGC
 TTCAACTCTC CACCATGAGG ACAACATGTC CTCCTTCTCT GG

SEQ ID NO:1619: (Length of Sequence = 344 Nucleotides)

GCAACCTCAT CCCAGGTTCA AGTATCTTC CTGCCTCANC CTCCTGAGTA GCTGGGATTA CTGGCGCACC ACCACACCCG
 GCTAATTTTG TATTTTTAGT AGAGACAGGG TTTCGCCATG TTGGCCAGGC TGGTCTTGAA CTCCTGACCT CAGGTGATCC
 ACCCACCTCA GCCTTCCAAA GTGCTGGGAT TCAGGCATG AGCTACTGIN TCGGCCAAA TCTTTCTTAA GTTGTGTCTG
 GCCTTTGGCA GAAATAGCCA CAAAGNCAGG GTAGGAACGT TTTACTCTTC AAGTGATGAT GGCATCCGAT AANCITTTAG
 AGGGAGGTTT TTAAAATGCA ACGT

SEQ ID NO:1620: (Length of Sequence = 379 Nucleotides)

GCCAGCCGAA GCTCCTCAGG CTCCCACCT CTACAAGTC CTCTGCTCC AGCCCACTC ACCAGGCCCG AGTCCCACC
 TAGCACCTTC CTTGGGAATN ATCTCCCTT GGTGGCTCT TTCTACTTAT TCAGCCTCAA ATGTNATCTC CACTGANAGG
 CCTTTCCTGA CTTGCTGAGC TTGATTCCTT CCCTCCCA GTNACATTAC TCCGTGTAT GGTACCCATC CTTGTCTCT
 TAGCTTGTIT TTGTCTGTAT TGGCTCTTCC ACTAGACTGT AAGCTGCATG AGGGCAGGG ATGTCTGTIT AATNCCAGT
 GCTCAGGATA GTGTATGGCT CGTGATAGAT GCTAGNACA TTTTAAATG GGGACGGAT

SEQ ID NO:1621: (Length of Sequence = 283 Nucleotides)

GATTTGGGGG CTCGGGGAGG CAGAGAATCT CTGGGAGTC TTGGGTGGCG CTGGTGCAAT CTGTTCTCTC TTGATCTCAA
 AGGACAATGT GGATTTNGGG ACCAAAGGTC AGGGACACAT CCCTTAGAG GACCTGAGTT TNGGAGAGTG GTGACTGGAA
 GGGAGGAGCA GCAAGAAGCA GCCTGTTTTC ACTCAGCTTA ATTCTCCTTC CCAGATAAGG CAAGCCAGTC ATGGAATCTT
 GCTGCAGGAC CTCCTCTAC TACTTCTGT CCTAAAATA GGG

SEQ ID NO:1622: (Length of Sequence = 356 Nucleotides)

TTAATTTTAA AGCAGATAAT ATTTCAAATA TTTTCTTTGA AATAGACCAT TTGTCCTGCC TTGAAGTATG TTAGTACATT
 TTAAGAAAGT CAGTGGGTTA AGGAGTCAGT GCTGTAGTA TTCATGCTTA AAACACTTCC CTTCTACCTA CCTAATAAA
 TGAGGGGCTC AAGAGAAATA TTTCTAATTC TCTAGCGACA TGGCTAATTT TTTTITTTTAA TGTATTTTGT TATTTTGT
 ACAGATGGAG TTTCAACATG TTGGTCAGGC TGGTCTCAA CTCCTGAGCT CAAGTGATCT GCCTACCTCA GGCTCCTGAG
 TCACTGAGAC TGTAGTTGTG TGCCACCATG CCAGGT

SEQ ID NO:1623: (Length of Sequence = 361 Nucleotides)

TTTGAGACAG AGTCTCGCTC TTTCGCCAG GCTGGACTGC AGTGGCACTA TCTCAGCTCA CTGCAAGCTC CACCTCCCG
 GTTCAGCCA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GACTACAGGC GCCCGCCACC ACGCCTGGNT AATTTTGT
 ATTTTGTAGTA GAGACGGGT TTNACCATGT TAGCCAGGAT GGTCTCGATC TCCTGACCTC GTTGATCCGC CTGCCTCGN

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CTCCCAAAGN GTTGGGATTA CAGNGTGAG CANCCGTGCC CAGCCGTNAA GTTAAGATAT TTTAAAAANA TCTCTGCAAG
TTGAGGAAGT NTTTCAGGAC TCTTCTCTGC TTAGTCTCAC T

SEQ ID NO:1624: (Length of Sequence = 350 Nucleotides)

CTTTGTGAGC TTTTGTGACCT GCGGGATCCG AGCCAGATTG ACAACAATGA GCCCTACATG AAGATCCCTT GCAATGACTC
TAAATCACC AGTGCTGTTT GGGGACCCCT GGGGGAGTGC ATCATCGCTG GCCATGAGAG TGGAGAGCTC AACCAGTATA
GTGCCAAGTC TGGAGAGGTG TTGGTGAATG TTAAGGAGCA CTCCCGGCAG ATCAACGACA TCCAGTTATC CAGGGACATG
ACCATGTTTN TGACCGCGTC CAAGGACAAC ACAGCCAAGC TTTTGTGACTC CACAACCTTT GAACATCAGA AGACTTTCCG
GACAGAACGT CCTGTCAACT CAGCTGCCCT

SEQ ID NO:1625: (Length of Sequence = 333 Nucleotides)

GTCTCTGTG AGACAAAGAA ATTATAAGA TGGCAGAAAT TATTAGCGAC GTTCTACCTC TATAATTCAC GTTCCATGAA
TCAGTACTTC ATTTCTTTTT TATGGATGAA TTAATATTC ACTGTACAAA TATACCACAT CTGTGTTTTT CATTCGTCTA
GGTTAAAAA TTTTATTTTT TATTTTATT TTTTGTAGA GACGGGATCT CACTGTGTG CCCAGGCTGG TCTTGACCTC
CTGGGCTCAA GTGATCCTCC CACCGTGGCA GTCCAAAGTG GGTAACTGT ACGCTGGTCT GAAAGACCTT GCTGAAGAGA
GAAGAGGCAA GCT

SEQ ID NO:1626: (Length of Sequence = 314 Nucleotides)

GACTGTCCGT GGACACTGGT TTTTAAGCCC AAGAACTGAA TATACAGTAG CAGTGCAGAC TGCCTCAAAA CAAGTTGATG
GTGATTATGT TGTGTCTGAA TGGAGTAAA TTATAGAATT CTGCACCGCA GACTATTCAA AAGTTCATCT AACACAATTG
TTGGAGAAGG CTGAAGTGAT TNCAGGACGC ATGCTTAAGT TTTCTGTTTT TTATGTAAAT CAGCACAAAG NATATTTTGA
CTATGTTCCG TAAGNTTCAA AAATATATAG TGAITTTGTT TACTAAATAT AGTTTCAAAT TCTAGGCTCA GGGT

SEQ ID NO:1627: (Length of Sequence = 375 Nucleotides)

CCCTGGGCAC CTGGTACCTG GGGACCTACA AGGTGGTGAG GGAAGGGTAC GAGTACATTC CTNTCCCTC TGACCTGGGC
GCTAGAAGGG CAAAGAACCC GAGCCTGCCA GCTTGGCCTC CTCCACAGC CTCCCTCGGA GGCATGCCAT GCCAAGCACT
CTTCTGTCT CTGTTCATGA ATAAAAGAGA TGGATGGGCT TATCTTTATA GAGAAGTGAA TTCTACTTAC TCCCCTGGCC
CGAAACTAG ACCAAATGAG GAACTGTTTT AGCTCATCAA ACTGTATAT TTATTTTCAA CAATGAAAAC AACACAACAA
AGTGGAGTCA ATCCACTAAT TTTTAAAT CTAACACAAT TGTTTGACA ACAAT

SEQ ID NO:1628: (Length of Sequence = 434 Nucleotides)

TGCACAGGCA CACCTCCACT CTTTATATCA TTTTCTCCAT CTTTCATTTC CCATCTGTAC CTCCAAAAT TTGCTATGAA
TCTAATTCAT CTTTGTCTC TCTCTCAT GGGTGCCCTT GCTCTGCCA GTCTTCTTC TCCGCCCCA CCCAACTTC
ATGAATTAGT CTTTCTCCC AGGAGCTCTG ATTTCTAGAC TGCTTTGAAA ATGCTGTATT CATTTTGCTA ACTTAGTATT
TGGGTACCT GCTCTTGGC TGTTCTTTTT CTGGAGCCCT TCTCAGTCAA GTCTGCGGA TGTCTTCTT TACCTACCCC
TCAGTTTTCC TTAACACGNG NACACAATC TGGAGAGTGT TAAGNATAAT GTTACTTGGT AATGTGTATT TATTGAGGAT
TGTTGTGCTA AGAATGNGTA GGTAAATA GGGG

SEQ ID NO:1629: (Length of Sequence = 341 Nucleotides)

CCTCAAAGCT GCAGGGAGGT GGGGGTGGCC GGCAGACAGG GTGGGGTCCG CATCGGTAC CAGTGACAGC AGCCTCTCT
CTCCACGGT GGTGCTTGT TGGGGCTGTG GCCAAAGTGT TTGCCCGGCC CCTGACTGTA TCCTTCOGGA GCTGCGGAGG
ACTGCAGAGA GGGCCTGGCT TGTCCCTCT AGGAGCAGCT GGGNNGTGT CTTGCTGCA TCCCCTTCA ATGGTTGAAA

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ATAATGATTC CACTTGTTCAT GAACACCATG AAGGTATCTT GGCAGCCAGA GTCACCTCTG TTCCCGAAGT GGGAAACCTN
GGGAGGGTCC TCAAAACCCC T

SEQ ID NO:1630: (Length of Sequence = 380 Nucleotides)

CATAAAACCA TCCTACGATG TGCTGCTGCT GCTGCTGCTG CTAGTGCTCC TGCTGCAGGC CGGCCTCAAC ACGGGCACCG
CCATCCAGTG CGTGCGCTTC AAGGTCACTG CAAGGCTGCA GGTGTCATCC TGGGACACCC AGAACGGCCC GCAGGAGCGC
CTGGCTGGGG AGGTGGCCAG GAGCCCCCTG AAGGAGTTCG ACAAGGAGAA AGCCTGGAGA GCCGTCTGTTG TGCAAATGGC
CCAGTGACCC CCAGACGCGG AAACCGGGTG GCAGCGCCAG CTTGGGCCCA GGCATGGAAA CGGACAACCC CTAATCGCTT
TAGCTACTGC TTCTAACAAC TCTTTTCCCT TGTGTTAAGG GAAACCAGGT TCAAGGGGGG

SEQ ID NO:1631: (Length of Sequence = 383 Nucleotides)

AGAGGATTTA TTTGGACAGG GCTGTGCTGA GAGTCCCACC CTCACCCAC AATGGGGGGG GGCCTGGCA TCGAACACCA
AGCTGAGTGA GAAGGCTCC TCCAGGCTC GCAGGGAGCT TGCTGGCTTC TCCTGGCTCA CAGCAGACTG GGCCCGACTC
CCATCGGAGG AAGGCCAGCA TCCTAGGGCA GCCAGTGGAG GGCTGGCAGA GGGCTGTGCC TNGAAGGTCA CTGTGCTATC
TTCCAACCAC ACTGTGTGAG TCTCAGATAC CATATGTGGA ATCTGCATCA GGAAGGTCAA CTTGAGGTCA TTTTAAAGG
GATTCITCCG GNAAAGGAG CNCCGCATCG GCGCNCITAA NCCGGCGTTT CGGTTTCATCC CGA

SEQ ID NO:1632: (Length of Sequence = 424 Nucleotides)

GGGAAGTGAG CTCCTGAACC AACTCTGAAG GAGACACCCA CTGCTAAGC CAGTCTCACT CTAGGACACC TGCCTAGCGA
CCAGCAAACC TGAATGAAA GGGCAAGTTC CTCAGTGCCC CCTCTGCATC AAAGGGAGTG GCTCTGCCCT CTCTAGTCTC
TGACTACCTG CTTAGTGATT TTTGCTTCTG TGCTCCAGA CCCAAGAAAA CCACGTCTCT TTTCTTCTT CATGACTCA
TCCCTTCTT ACCCTATATT GTCTCCTCA CTCTCTGCT CTGCTGGCCA GGCTTAAATC TGGGCCACCA GCCTTCTG
GACATACCTA TTTCCGCAAC TGAACCTCC CAACCCCTAG GAAACAAAG GTATTTTACA AGGCCTCTGG ACCTTGACCC
AAAGAGGCAT GNACCATAAT TACT

SEQ ID NO:1633: (Length of Sequence = 417 Nucleotides)

TTTTTCTAC AGCATCTTT TATTGTCTT ACCATTACTT TAATGCATTT TAAATTTAT CTACATTAAT TGGGAACAT
TTGCATTTT TTCATCTCT CTCTCTTTN CTTTNCITT TTTTGGATTT GTCTTGGCCA GAGAGGTCT CCAACACCCG
GGTGGACTTG GAATTTTITA TCAGCTGCAA TCTGAAGACT TGCTTTTACT GTGGAATAGG TGACATTCCT TTAGGACCTC
AGAAGTCAA GTAGTTTAAAT GCCAAGTCTT TCAGAGCCT CACTCTCTT TATTTTITAA ATTAGAATIG TGATTTATIG
AAGNCTTACC ATGGGGTTCA TATAATTINT NAATNGANCA GCTTTATTGA GGTATAATTC AATACCCCTT TAAAGNATGT
AACCCGTGGG TTTAGAC

SEQ ID NO:1634: (Length of Sequence = 423 Nucleotides)

AATATCCCAA ATGTGCAATG CATCACCTGA GACAGAAGGC AGAAAGCATC AAGCTCTCTG TTTATCCCAA TTCAATGACA
ACCAGAACTT ATTTTTTTTG AGATGGGGTC TCGTTCGTG GCCCAGGCTG GAGTGCACTG GGGCATTCT GGTCTATCGC
AGCCTCCAAC TCTAGTCTC AAGCAACCT CTTAGTCTG TGCTCTGAGT AGCTGGAAT ACAGGCATGC ACCACCAC
TTGGCTCATT TTTAAAAAT TTCTGTAGA GACAGGATCT TGCTACATTG CCCAGGCTTG AGGTGCCGTG GTGCATTAC
AGCTCACCGC AGCTCAAAT CTTTGGTCTC AAGCGATCCT CTTGNTCTAG CTTCTGGGT GGTGGGCT CAGGCATACA
CCACCATGTC TTGGTCAATT TCT

SEQ ID NO:1635: (Length of Sequence = 384 Nucleotides)

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CAAACTAC TTGACCCCA TTAAGAGGCA AGCCTGGCAC ATCTATCCCT GGGCCTTTAG AAAGCCATTT GCCTCAAATG
 GCTATAGGGT TGTGGGGTGG AGGGAGGAAG GGCTGGGAGG GAGTNGGGAG GAATTGCTAG CTGTAGTGTG ACACATTGTA
 GGTGTTGCCA GGAAATGAGC CAGACATGGT GGTGTATGCC TGTAGTCCCA GCCACCCAGA AGGCTGAGGC AGGAGGATCG
 CTGAGACCA AGAGTTTGAG CCTGCGGTA GCTGTTAATG ACCACGGCAC TCAAGCCTGG GCAATGTAGC AAGATCCTGT
 TMTCTACAAG AAATTTTTTA AAAATTGAGC CAAGTTTGGG TGGTGCATGC CTGTAGTCC ACTA

SEQ ID NO:1636: (Length of Sequence = 362 Nucleotides)

CAAAATGACT GACTACAGCA ATGCCTTCGG TGTGCCCCAC ACATCATGAG CACCGCAAGA GACAAAAGAT TAACTATGAA
 ATATAGTAAT CTAAGCAAGC CCACACATAC ATATTTTTGG GGATTTCCCA CCATCCTGAA TAGTATCACT GCAGTTGACA
 CAACTTCCAG GGAAGTCAG AGTAAGTGCT TAATATTATC CACGAGAAAG CAAAACATAA TATTAGTGTG CACATTTCTG
 AATGAGAAAC TAATTGCTTC ATGATTTC ACAAATGTAGT GGNAGNAAAC TATTTTCAGAT CTCTACAATG CCTAAATGCA
 TTCTATTAA ACTCAAGGTA CTATTTTCAT TTTTACCATA CT

SEQ ID NO:1637: (Length of Sequence = 205 Nucleotides)

GGCGCCCGAC GAGGCTCAGA CCTCTTNTAC GNOGACTACT ACGAGGACGG CGAGGTGGAG GAGGAGGCCG ACAGCTGCCT
 CGGGGACGAT GAGGATNACT CTGGCACGGA GGAGTCTTNA CACCACCAGA ATAAACTTGC CGAGTTTANC TCACTAGGGC
 CGGACCCGTG GCTCCTTAGA CGACAGACTA CCTACGGAG GTTTT

SEQ ID NO:1638: (Length of Sequence = 253 Nucleotides)

CATCAGGCT CACCGTCTG CTCTCTGCAC CAGCCTTCC AGAGCATNCC AGTNCATG GCTTCATCTG TTAAGTGTG
 ATCACTTCAG TCCTGATTTT TAGACCTAAA TGGTTTCCTT AACGCCATTC TAACTGCCTG TGACTCATTT TCACTTACAG
 TGTTTATGT AACGCCAAAC CAACAAATCA CAGGTGCTTG CTCTGTCCA TAAATCTCCC CAGTCTAACT TTTGTTCATT
 CAACATGRCT CGT

SEQ ID NO:1639: (Length of Sequence = 360 Nucleotides)

TGTGGCCAAG GACCCTATCG TCAATGTATG GACTCTGTG AATGGTGAGA GGCTGGGCAC CTACATGGGC CATACCGGAG
 CTGTGTGGTG TGTGGACGCT GACTGGGACA CCAAGCATGT CCTCACTGGC TCAGCTGACA ACAGCTGTNG TCTCTGGGAC
 TGTGAACAG GAAAGCAGCT GGCCCTTCTC AAGACCAATT CGGCTGTCCG GACCTGCGGT TTNACTTTG GGGGCAACAT
 CATCATGTTT TCCACGGACA AGCAGATGGG CTACCACTGC TTTTGTGAGC TTTTGTGAC CTGCGGGATC CGAGCCAGAT
 TGACAACAAA TGAGCCCTTA CATGAAGATC CCTTGCAATG

SEQ ID NO:1640: (Length of Sequence = 321 Nucleotides)

GTTGGAGGCC CTCTGCCCTG TCTGAGAGC AATGTCTTCT CCATGGGGCA GCATNGGCC TGGATGGGCC TGAGCATAGC
 AGACCACGTG GTCACATGTG CATGTGTGGA CATGTGTGCA TGTGTGGATA TGTATGCTCC TGAGTGTATC TGCATGTCTT
 NCTGACAC ACAGTGCTCC CTTCCGATGC TGCCAGCCTG TGGTGGACTT CTCTTCTGA CCCCTTCTT GCCNCCGGNC
 TGTTTTATCA GTGAAGGAC TTAACATAAGC AGATCTCCAG GTTCACCTTN TGGAACTCAG CTCAAGGTNA GCACAGCAGG
 T

SEQ ID NO:1641: (Length of Sequence = 266 Nucleotides)

GGTGGTGCCA CTGTCTGAT AGTTTTTCCC ATCTTAGTAG CGNACCCAT AATTAAATGCC TACTCACATC AAGTTAGCAC
 CACTCAAATG TGGGCCATTC ACAGGCAGCC AGGGATCCTC TTGNCCTG AGGTGGGGG CTTCATCAG AATGCAAATC

372

TRCCGAGGCG TGAAGCACAA TTTAKTTCAA CTGCCATKTK TTCCTTCACA GTAAGRCCTT CTGGRGGAAG GAAGCAGTGT
GTTTGAGTTA TACCTTAGGC CAAGCT

SEQ ID NO:1642: (Length of Sequence = 295 Nucleotides)

AAAAGCCCCA GCCTCAGGAC CCGGTCACA GGCACCCGGG GGTGGGGGTG ACCAGCAGCA GTTCAGAGGC AGGTGTGGGC
AATGTGGGCC TGAGTCTCCT NCCACTCAC GTCACTNCCC GCGGGGACAC AGCGGCATTT NTGGGGCACT NGGCATGCCG
GGTTCCTAAC CTCAATTATT CATTCGTCTC TCAGGCACCT CCTGACGAGA CCCTGGCCCA GGAGAGCTCG GCTCGGGGAC
AGAGGAATGA GACTCAGTGG GACGCAGAGN CCAACCCCAT CCCCACCCCT GGGCT

SEQ ID NO:1643: (Length of Sequence = 359 Nucleotides)

ATCATTTGTA GTTTAACTT TTCATCTAAT ATTAGATTGC ATGCAGGATT TTATATCTAA TTA CTCTGGC AGATGGCCTT
TAGAAAGTTC AAAAATAAAA TGCAGCAATT CATATTGGCA GATTTACTAT TGAGACCAAT GCTTTCTTAA CTAAAAGGTT
TGTGTTAAAA TCGTTAGTTT AGGAAATCTG ATAAAGATTT TTGAATATCA GAGCGTTTAA AAGAGATTCT TACTTTACAT
CTGGCATATT TCTTGTTTA CATATTATAA TTCCATTGGA ACATGGCTGT CTGTAAACT ATGTATATGA TCCGGAAGAG
ACTCAAATTA AATTAAGGTT TAACAGCCAT CAAGTTCAT

SEQ ID NO:1644: (Length of Sequence = 293 Nucleotides)

TGAACCCGGG NGCGGASTT GCAGTCAGCC GAGATGGCAC CACTGCACTC CAGCCTGGGT GACAGAGCCA GACTCTGTCT
CAAGAAAAAA AAAAGAATTA AAAGATGTGA ACAAAGCAA GAAAGTGCTG TATGAACGAA ACGGAAATAT CAATGAAGAG
AAATAAAAT TATAAAATC AGGAAATGAG ANGTACANTA NCAGNAAATT CACTGGAGAG ATTCAAAGC ATATCTGAGC
AGGTAAAAAA AGTAGTGAAC ATGAGATAGG TCAAGGAAA AGTACTGAGT CTG

SEQ ID NO:1645: (Length of Sequence = 332 Nucleotides)

AAAAGCTGGA TATTAGGAAA TGTAATATT AATTCTGAAT TTGTTACTGA CTCAGGATGA CCTTGCATGA TGCATCCAAC
CTTCTTTTCT CTATATCAGA AACTAAAGA ATAAATGTAA CATCACATTC TTTTCTCCTT TGGGACAAAC AACTATGTAC
AATTGAATAA AAATGAAATT GCATAAGTNG TGGATAGAAT ATGTTTGGGT TGGTTTGAAC TTAGCACACT GTTTAATAAT
TCAACATTTT TTATACCTGT GCAATAAATT TTTAAATGAT GTCTGAAATG CTTTGAAATC TTCAGAAACA GGTTTATAAA
TGGCATAAAA AA

SEQ ID NO:1646: (Length of Sequence = 210 Nucleotides)

GAAAGTNCCT CCAATCACTC TCTGCACAAT GAAGTGGCGG ATGACTCCCA GCTTGAAAAG GCAAATCTCA TAGAGCTGGA
AGATGACAGT CACAGCGGAA AGCGGTGGAA TCCACATAG CCTGAGTGGC CTGCAAGATC CAATTATAGC TCGGATGTCC
ATTTGTTTCA AAGACAAGAA AAGCCCTTCC GAATGCAGCT TTGTTAGCCA

SEQ ID NO:1647: (Length of Sequence = 246 Nucleotides)

TCCACTCCAA GGGTTTCTGA CCAAGAGGT GGGGACCAA ACCATGCAIT CTAAGAAGT CCCCAGGTCA TGCTGCTGTT
GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
CTNAGGAGTA GCTGAGAGGA AAATNAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAAATGTGA
AGGGTT

SEQ ID NO:1648: (Length of Sequence = 338 Nucleotides)

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TCCACTCCAA GGGTTTCTGA CCCAAGAGGT GGGGACCAAA ACCATGCATT CCTAAGAAGT CCCCAGGTCA TGCTGCTGTT
 GCTGGACTGA GGACCACACT TTGAGAACCT GTGCTCTAAG TGAATACTTG GAAGTCGTTT CAGGACATGG GGCATAGAAA
 CTGAGGAGTA GCTGAGAGGA AAATGAAGAG AAGCTGAGAA GAAGCTGAGG ATCCTCACAG GAGCAGACAG AGAANTGTGA
 AGGGTGGGGT TTTATGINTG GGAAAGGGAC CCGAAGCCCA GGCTGAAGAG TTTTAACTTT GGGCCCAGAA ACTCAACCAT
 CAATGGAAC AGGGCAGT

SEQ ID NO:1649: (Length of Sequence = 275 Nucleotides)

GCACCTTAG GATTGAGACC CGGAAGGCTT CRAAGGCTGT CGCAAGGAGG AAGAAGTGA AGAAGTTGG GAACTCAGAG
 TTTGACCCCC COGGACCCAA TGTGGCCACC ACCACTGTCA GTGACGATGT CTCTATGACG TTCATCACCA GCAAGAGGA
 CCTGAATGC CAGGAGGAGG AGGACCCAT GAACAACTC AAGGGCCAGA AGATCGTGTG CTGCCGCATC TNCAGGGCG
 ACCACTTGA CCACCOENVG CCCCTACAAG GATAC

SEQ ID NO:1650: (Length of Sequence = 270 Nucleotides)

AAAAGCCAGA GGGATGAGAA TGAGAAAGTT AAAAGGGAGG TCAGGAAAGC CATCTTTTAG GAGAAATATA AATNGACAAT
 SCITTAAGAA AGGAGCTGCC ATCATATTAT ACCCTGACCC AGCTGGATAC GAACAAATC AGCCTTGGCA ATGCAAGTCT
 TACATCTATT TTATATAGAT TGTATAAAG AGAACTGGAA GCATTTTCAA GAGGGGTATG TATGTGTTTG TGTGTGTCG
 GTAATTAATG AAAGAGAGGC TATTGAATTT

SEQ ID NO:1651: (Length of Sequence = 372 Nucleotides)

TCTGCTTTT TAATTGTATT TCTTAACACT AGAATTTTCT ATTCAAGIT TTGTACGIG GCCTTGGTTC TCCTTAGTAC
 ATTTTATAGT CGCTGTAGT TGATTCCATT TTTCTTGAAA TTGAATTC TCATGACCTA ATTTCTTCT TGAATCTAC
 ATCTACTTT CTCAATGGAC GCAGTGACGC AATGAAGCAT CCAGCAAAGC TTTGTGTTG GATGTGTTAG GAGTCACCC
 TGTGTTGTT GAAGTTGTCT CACAACACT TCTCTTCTG CTCTCTCTT TTCATATGA CATGTGTTT CTMTTCAAT
 GGATTAACIT TATTGATCAT CCTCTGTC TCTAGCAA AGACGGGTGC TT

SEQ ID NO:1652: (Length of Sequence = 314 Nucleotides)

TTCTGAGTA TGCTGCACCT GATTATTAGC ATGTTAAATA GTCAAAGGA CTGGAATAA CATCAGGAAG ATTTCAATAA
 GTGGTGTAAG TAGAAAAAA AGGTTAAACA ATGAGCTGCA TGTGATAAG TATAAGACAC TGATCCAAGT GGTGGCTTCT
 GAACCATGAT ATTACTTAAN CTAGAGTGT AAGGTCAGCT TAAGTCAAAA TAAAACAAAG CTCCAAACC CTCATTTTAA
 ACACAGTAGA TAATAGATGA NCTTGTATC TGGGAGATA GTACAAGCCA AANGTTACAG CTGTGTTAAA ACCT

SEQ ID NO:1653: (Length of Sequence = 323 Nucleotides)

TAGATATGAT GGCTGGAGCT GCAATAGCTA ACTTGCAACT ATGAGGAACT ATAGGACTTT GTCTTAACA TTCTGAGCT
 CCTGAATCAA TACTTTAACT ACCTTCTATG AGACTTCTTG TCACATGAGA AAAATTAGC CCCAATTAA ACCCTGCTT
 TTAGCTGTA CTCTCAATTG AGCATAAATC CTAAATGNTT TAATCAATTC TACTCTACTC TGGCATGATT TTNAAGGCAT
 TAACCATAAT TTCTTCCAA TCTAAAAGG GAACATATC TTAGTGAGT ATCTAGTATA CATCAGATAC TGTGTATATA
 GGC

SEQ ID NO:1654: (Length of Sequence = 352 Nucleotides)

ATCTTGGCCT GCAGGAACAT GGCAAGGGCG AGTGAAGCAG TGTACGSCAT TTTAGAAGAA TGGCATAAAG CCAAGGTAGA
 AGCAATGACC CTGGACCTCG CTCTGCTCCG TAGCGTGACG CATTTTGCTG AAGCATTC AAAGCAAGAT GTGCTCTTC
 ATGTGCTTGT GTGCAACGCA GCAACTTTTG CTCTACCTCG GAGTCTCACC AAAGATGCC TGGAGACCAC CTTTCAAGTG

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AATCATCTGG GGCACITCTA CCTGTCCAG CTCCTCCAG GGATGTTTTG GTGCCGCTCA GCTCCTGCCC GTGTCAITGT
GGGTCTCTC AGAGTCCCCA TCGATTTACA GG

SEQ ID NO:1655: (Length of Sequence = 325 Nucleotides)

AGGGTAAATT GTGAGACTGT TTGTATATAT TTTTGTGTTA TATGTTTTTG TTGTGTTAT GTGTATATNT TTATTTATAA
AATGATAGAT CTGTGGGTAG GTTCTGAGAA ATGAATAGCT TGTATTTCTT TTTTATGAA AGAAGAACAA AATGAAGTTC
AAGTGGAAAG TATCTCCAGA AAGTTTAAACA TTTTCTTATT AACCAACTCA TTGATTGGCA TGTGAAACTT GAGATATTTT
ATATAGCACT TTTTAAATGA GGATCTAGCT TCACINTATC ATACAACCAC ATTAAATA GCCAGGTCCA TGTCAITAT
AGGGG

SEQ ID NO:1656: (Length of Sequence = 285 Nucleotides)

GAGGNTAAT AGAATAGATC AAAGCAGAAT GCAGTGTGTT CATGTCATAG GTTGACTTCT CCAGGAAACC GACCCCAAGT
GGAAGGTTTA CATGCAGGTG GTTTATTAGA GAGTGATGTT GGGGAACA CCTGTAAGN AAGAAGGGAG CCTGGGAAGA
GCAGNGNAG AAGGTGAAGT CTGATTCATC TGCAACAGAG TCCTAGGCTG AGTGCATGGG ATNCTGTAGA GTTGGGGATG
GACCTTCAGA GATATTCCAA ATAGAGAAAG AATCCCTGTT TACTC

SEQ ID NO:1657: (Length of Sequence = 385 Nucleotides)

GACTTGACTT TGCTTTTTTC CCCCCAAGTA GAACTAATGC TAGCTTCCAG CTGAAAGTA AAATCCAGT GTGGAGTGAA
TTTTGTGCTT AATTATAAAC CTGTAACCAA AACTCAGACA TCTGGTACTG GTCTTTGCAT TGAGATTGGT CCCTGTAAAA
CCCCCTTAA AAGCATATTG CATTTAGTAC AGAGCTCTTT TTTGAAATGN AGGCTGGAGA TGTGCATTTT TCACGGTGT
AACTGGTGT ATCTTATTAG CAAGGAGATT GGGGGTTTTG AGTGTGCG TGGGTGGGT TCAAATTTGC CAGGGGAACC
AGTGGGCAGG CTGCTAGCAA GGCACTGAGG AAGCTCTTGG CAGCCAAATG GGGTGCATTT CAGGG

SEQ ID NO:1658: (Length of Sequence = 338 Nucleotides)

GATCAGGACC TCTTCTTCTT CCAACACTG CCCCAGAGC CCGTGTGTTA ACGTTTACCA GCACACTACT GGGCTGTTTC
TCTACCACTT GATGAAATG ATCCTTATGG AAGCACAAT GACTTCACTG TCACTAAATC CAAGGGACAA TTTTATGCT
CTATTTTCT TCAACTCTCC AGGATGTTTG AGAGCTGATC TTTCCCTCCC TCTGAGCCT CCTCTCTGC CTGCTTTTA
GGGTCTCTG CTGACTTTTC TTCATTTCTA AACACATGTA CTCAGGGGT CCTCAGCCCT GCAAGGCCNA TGCCTGGGT
ACCCAGTCTT GTGGCCT

SEQ ID NO:1659: (Length of Sequence = 346 Nucleotides)

AGTATGTGAA GTCAATCACT TTTTATATGC AGATAATATG CGACTTATAA TGGAAGGTCA CGTTTCAATA GCAAACAAA
AAGCTATAAG TAACAAAGAA TAACAAACT ATAAATGTAT AGGCTCTACA TAAAGAAAAC TATAATTCCA TAAAGGATCT
AAAATAAAC GNGTAAATGG AAAGACAAGA TGTGTGTGA GATACGAAGA ATCCATGATT AAGTTAGAGG ATTCTTGGAT
GACAGTAGAG TAGAAAGCAC CAAGAATGAG TCTGTATACC CAGAGAACAC TTACGCTGGT AGGAATCTAT CTCATACAAC
TATTATGGAG CTCACAAAGT ATACTG

SEQ ID NO:1660: (Length of Sequence = 240 Nucleotides)

GATAGAATAG CCAGCCTTCC ACTTGAATGC ACTGCCATAT TGTCAAGCTG CATTCCTTAA GCATCACTTC TTAGAGGCTT
CAAGCTTCTC GGGAAATGTTT GATGACTTAA AGGGGAAATG AACAGGTGCT AATNATGCTT GTCAAGNTTC TTTTGTGAA
CCTCTATTG GACAATTCAC AAAAAAAG AAAGCAGCTC ATTTTCTAAT TCAGGATATT ATTTCTTTT AAACTGGTA

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SEQ ID NO:1661: (Length of Sequence = 294 Nucleotides)

AGCACCTCCC CTGAGGGCCA GGCTTGGAG AACCGGATGA AGCAGCTCTC CCTACAGTGC TCAAAGGGAA GAGATGGAAT
 TATTGCTGAC ATAAAAATGG TGCAGATTGG CTGATTTCATC CTGGGCCCTG GCGGATATGC ATATCAACAT TTATACATGG
 AACTGTGAGA ACATTKTGCC AATAATCATT TAATATATGC CAAATCTTAC ACGKCTACTC TAAACTGCTC TAATGAAGTT
 TCAGTGACCT TGAGGGCTAA AGATTINTCT TCTGGTGTA GAGCTCTTTG GGCT

SEQ ID NO:1662: (Length of Sequence = 291 Nucleotides)

GATTTTCATC AGGCAAAATNA AAGTAACCAC AGAAACAATT CAGTAATACT ACTAAGAGAG ATTAACITCC CACTGGCCCTT
 GGAATAGCTA AGTGCAITGA TTTTKGTGTA GTGTGTAGTT TTTTCTTTC ATTGATATTT TACGTATTKC TGGGGTAAAT
 GTATTTTWA CATGCAITGA ATGTGTAATG ATCAAGTCAG GGTATTTGGG GCCTCCATCA CCTTGAGTGT TTATCATTTT
 TATGTGTGGT AACATTCCAA GCGCTCTCTT CTAGCTTTGG AATATATAGT G

SEQ ID NO:1663: (Length of Sequence = 345 Nucleotides)

GGCAGTGGGA CTCTCTGTGG ATAGACTGAT TCTTGTITAG AAACAACAGC AAAAAGAAGA AGGCAGGAAA GAAACTCCCC
 GGCTCGGAGG AATGTCTCTG TGATCCCAT TCTTGATGGA GGGAGTGAAA AGGGGCGCTG NCTTCGCCCC CTGCTCTCCT
 GACAGAAACA GTAAGTACCA CCAGGACAGA AGGCAGGAGC CCGGAGAACT CACGGCGCTC TGCAATGGCT CCAGCCNINC
 ACCGCTCTCC AGCCACCCCT GGAGCGGCCG TGGGGAGGCG GCAGAGGGGG CTTTTCGGAG GGCCCACTAT TNCCACAAGT
 CTTTCTTTNG ACACCCAGAA AACTT

SEQ ID NO:1664: (Length of Sequence = 334 Nucleotides)

GTAAATAAGA AAGTGAAATA ATTCTATAA TGTAAGGTTG ATAGAAGATA ATCATCAGGG TCAGAATTAA GAGGTCTTGT
 GGTITAGGAA GCATAAAAT ATGTAACCTA TTGTTTATTT CACTCAGAAA ATAAAAGTAT TAATGAAAGG AGTTAGAGAT
 GAACAGATTG ATACAACTG TTCTATGGIT TACAGCTTAA AAAATAAAGG TACATTTAAT GCTATGCATT TTGAGAATAA
 TGTCTTTTAT GCTINTCTT TTTACATATG TATCINTTGG TATTTAAGGT CAAAATAGAT TGACATTACT AATTACTTCA
 CTATTAATAA TTAA

SEQ ID NO:1665: (Length of Sequence = 310 Nucleotides)

TGTACTINCTA TGAAGCATCC CTTCACATC AGATCAAAGA CATCTTAAAG CCAGAAATAA TGGAGGAGAT TGTGATGGAA
 ACACGCCAGA GGCITTTTGA ACAGGAGGGA TAAGGAGGTG CTCCAGAAGC ACGGGACTNT GGACCTTGCA GGAGTGAAGA
 CIGTRATGTG TGGTCCCAT ATGTGGCTCA GCAAAGACTC GAGAGATCAT CCTTTGTCT GCATTGACGG CCCTGTGACG
 GCCTCCAGCC CACAGGCCCTG CTTTCTCTG TCTAACACC AAGCCTGGGT GGCAGATGAA CAGTGCTTCC

SEQ ID NO:1666: (Length of Sequence = 352 Nucleotides)

TTTTTTTTTA CATACAAAGT TTGGATTTT ATTGAAATCT TGTTAGGTAT CAAACAAATT CTGCTTTCTT CAGATAAAAA
 TATCTCTCA GATGTCTCCA GATAACTGCT AAGTCTAAAT TGGTCTTCA ATGTCTTAT TTTATTGTC TCGTGAATG
 TTCATATACA GTTAAGATGT TCCAAAAGG ATTTTATCG TGTAAGGAG CGTACATGAC GACCTCTACC ACTGCCTCCA
 CTAACAACT TTCTCTTGA GCTCCACTG CCGCTATTG CACTAGCCA GGAAGGTCC AAGTCCCCA CGACCTCTAG
 AAGCACGGTT CCGAGGGACT TTGGGGTAA CC

SEQ ID NO:1667: (Length of Sequence = 287 Nucleotides)

GACAATNATG CCGCTGCCA CATTTGGTC CATCTTTTT TTTATTATGC TTCTCTTCT TGGACTGGAT AGCCAGGGAT
 GTTTCANCIT CCGCTCTGTC AAGTACGTAC CCTGACCTA CAACAAAACA TACGTINTACC CCAACTGGGC CATTTGGGCTG

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GGCTGGAGCC TGGCCCTTTN CTCCATGCTC TTNGTCCCT TGGTCATCGT CATCGGCCT CTGCCAGACT GAGGGGGCCG
TTCTTTGTG AGAGTCAAGT ACCTGCTGAC CCCAAGGGAA CCCAACC

SEQ ID NO:1668: (Length of Sequence = 300 Nucleotides)

CCAGACAAAT ACCAAGTTTA TTTCACAAAC ACTAGGAAGA TGGGTGAGG GTGGAGGTGG GGGACACAGG TGCGCANTGC
ACAGAGTCAG CAGCAGCAGC CTGNTCCCG CACTGAGGAC TCGGCCTGGA CTGCAGTGCC TCCAAATCAA CACGAGCAA
GAGGGGAGTN CAGNGAGGGC CCTNACACC AAGCCTCTGA AAGGCTAAGG GACACAGCTC CATCTGTCCC AGGAAAACCA
GCAATAAATA AAAGTNNGGC ACGGCCCCAC CCACACATAT CATCTAGTCA CCCATCTTCA

SEQ ID NO:1669: (Length of Sequence = 334 Nucleotides)

TTTAAATGAC AGATTTTCCT AAAAGAAACC ACTATAACAT CTGTCCAAGT ACTCCAGAGA AAACAAAAAA TACATAAAGA
TTAAAGTCT ATTACTTTAA CAGCACATTG CCAACACGG ACAACTAGGA TAAATGCCAA GAAACCTTAA AAAATAACTT
TAAAGATGC AACGTTCAAG CCATTCAAAC GCGTAGGTTT CACAAACAAC AGGNNACAA GTCCAAGAGC AGTTCTACTT
GTGCATGATG GTAACTCAGA CTGTACTTCA TCAAAGTTCA TTCAGGTGTT TCATAGGCGT CTGAGCAGAG TTTTGTITTT
TTCTTTCCTT GCTT

SEQ ID NO:1670: (Length of Sequence = 287 Nucleotides)

GATAAAAGAG AACAGCGAA GTTTCAGAG AAAAAGTTGA GGTCTTAATA ATTNTGGGC AACTTGACAG CAGAACAGGG
TAAAGTGA TTAGCTACAA AGGCTCATCA GAAATGGCA ATAGATTCCA GAGAGATTTA ATAAGTACTT ACAAAGTCTG
CTATAGGTGA CAAATCTGAC CATGATAAAA GCACCGTAAA TGATATAGGT AACACTGNGC ATATGAAAAC TCAGACTGTG
CACTAGATAA AAAGGAANCC CAGCATACAG TGTTACCACA TGTAAT

SEQ ID NO:1671: (Length of Sequence = 187 Nucleotides)

GATAAAAGAG AACAGCGAA GTTTCAGAG AAAAAGTTGA GGTCTTAATA ATTTTGGGC AACTTGACAG CAGAACAGGG
TAAAWTRAG TTAGCTACAA AGGCTCATCA GAAATSGCA ATAGATTCCA GAGAGATTTA ATAAGTACTT ACAAAGTCTG
CTATAGGTG GACAAATCTG GCCCATG

SEQ ID NO:1672: (Length of Sequence = 329 Nucleotides)

ACATCACAAAC ATCGTTTATT ATGTGAATTT TTTACAATAC AAACAAAAAA TACAGAAATG CAATATATGA ATACAGCTAA
ATGCAGAAATG GTGACTTTTT TCTCTTCAAG AGGCCATGAT TCCCATTTCT AGTAAATAA AGAGACTGCA TATAGGTAGA
AACAGGTTGG TCATTAGCTT CACAATTTTG CCTAGAAATG ATCTATAAAT GCATTCCCC CCCTGCTACT TACCTAAAG
TGTAAGAGG GAGTTAAAGG AAAGTTTCCT TGTGGTTCC TACCATATGA AAGATGCTAT ATTCTATTTT AGCAGTGCCA
ATATATGGG

SEQ ID NO:1673: (Length of Sequence = 386 Nucleotides)

CTCCCTACTG TGATTCTCAT CAAGCTGGAA GCGTNGTGAG AAAGCACTTC AGTTTCTTCC CTCGGATATG AACCTGAGCT
CTCTGATGAG GTGGTTTAGA AGTGGCCCTG GGAGAAGCCC ACTTCTTGGT CACAAGATAC TGCAATCTCC TGGCAGATGA
ACCAGCTGCT TCCAGCATCC TCTGTGTGGG TCCTCAGGCC TAGCTGCTCT ACGTGTGGC TGCACAGTGG CATCACATGG
GGAAGTAGAA AAACCTCTGA TGCTGTCCC CACCCGGCTT AATCAGATG AAGTCAGATT ATCTGGGNT GGGACCCTAC
CATCAATTTT TTTAAAGAAT TGCAGGGGCC AGGGCGTGGC GGGCTTCAGA GCTTCTTAGC AATTTT

SEQ ID NO:1674: (Length of Sequence = 377 Nucleotides)

377

CTGAAATTTG GCAAGAAGGG GCAAAAACGT GACTATTAAT GATTGATAAG CACCAGTGAA GAAGTTCTAA CTTTITAGCAT
GCTGCACAGA AACTGGTATA ACATGCCCTC AGTATACTAA CACTCATATG CTCAGTTTTG TTTTGTITTTG GCAGTTGACA
AGAAGTTAAT TTGCTTTAGT AAAAATCCCT CATTCACGCC TTCTATATA AATAGCTCTT TCTTGCTGTT TTAATGTGGT
GCACACTATA GCCTCACAAA CCTGTTATTC CAGTGTAATC TGCAGTGTCG TAACTAAAGT TACTGGCTTG GGTCTTATTT
GCACAGTTTT TGGGNCITGT TTGCTTCTTG CATCTGGATT AACTAGGAAT ATTCTC

SEQ ID NO:1675: (Length of Sequence = 381 Nucleotides)

CAGAAGTCAA TCAGCTAGC ACCCAGTCT CAAAGACCTC ACATGCTAGG GAAGGTGCGG AGGCAGAGTT GTGGTTCAGA
AGCAGTTACA GGCTCAAAG CAAGAACAGC AGCCAAAGCT TCCAGCCCT GACGCTGCCT CTGAATGGTA AACCAATGGC
ATATGGTATC CACAGCTAGG CTTTGCTTTT TTCTGAGTGA AGGTAAAGG CATTTGAAA TAAACCAAG TTTCACAGAC
TAIGTTTTATG GAACAAACAT GGGCCATTTT CAGGGATATA AAAGTCGATG TTCTATGTAG GCCCCCATAT GAGTATTTAT
CTACTTTTTA TTACTTTAT TTATGGAAT TTATTGNC AAGGGCTCA CTCGTTCGG A

SEQ ID NO:1675: (Length of Sequence = 404 Nucleotides)

CTGTGTGAT TGCTTGAGC CATCACAGT TAGCTCTCAC AGCTTTAATT TACTAGCCCA TGAGAAGTCA GCTTCAAAGA
ACACCATTC GACTCTCAA GAACATTATC AATGTACATG GATAGCTTC AACTTCATAA GGTTTTCCTC TCTACCTAGA
GCAATTACA TTAATTTGCA GAATAGTGT TATTGAAAC CTTGTGTAT CTCCAACAA GTAATAGTGT ATTGATTTCA
TTCTACTAT CTCAACTGT ATCATTAGA GGAATTTCTT AGGNAAGTCT ATATGCAGTA AGCAAGTAAG ATGCAGAAC
ATCAAAGGN GGAAGTAAAT CCCAAACTG GNTTTTACCT TCCTTTCCCT TAGGTGAGGG AAAGGAATTT ATGGTTTTAA
AGCT

SEQ ID NO:1677: (Length of Sequence = 388 Nucleotides)

ATGGAACACT ATGAGCCAGG AGTCTACACA GAGAAGGTTG TGAAGCCAC TAAGCTGCTC TCCAACACAG TCATGCCAGG
TTTTACTGAG CAAGTAGAAG CAGCCGTGGA AGCCCTCAGC TCGGACCTG CCCAGCCCAT GGATGAGAAT GAGTTTATCG
ATGCTTCCCG CCTGGTATAT GATGGCATCC GGGACATCAG GAAAGCAGTG CTGATGATAA GGACCCCTGA GGAGTTNGAT
GACTCTGACT TTGAGACAGA AGATTTTGAT GTCAGAAGCA GGACGAGCGT CCAGACAGAA GACGATCAAC TGATAGCTGG
CCCAGAGTIG CCCCGGGCGA TCATGGCTCA AGCTTCCCA GGGAGCAAAA AAGCCGGAAG ATTTTCGG

SEQ ID NO:1678: (Length of Sequence = 428 Nucleotides)

TAAGTGTGCA AATAATCCAT GAATATATTG TTTTATACA GCATTACAGA TAAGGCTTGC AGCTCTATAG ATCACCTCA
TCCACTCCTT CACTCCATTG CTACACTTAA AAGCCTCACA TGCTCTCTG TCCTCTCCA AGGCAGCTGC TAGCATCAGC
GCCACAGTA GCCTCTTTT GTTCTCTGTT TATAAACCAT ACATTTTCTA TGGCTACACA TACGTGTATT GTTGTATGCT
TTCTAATAAA ATGTATCAT AGTGGTACAC ATCTTTCACA CTTTCTTAT TACAGTCAAC ATTTGGNGGA ATACAGAATG
CAGCAGATCA AGGANTTTT CTCAGTCTTT TCTAACATGN CCCCAATAC AGCCTCACTA TGGGGTCCAT TTAGNGGCT
CATTGGTTTT CACTCTACA ACGGTGGC

SEQ ID NO:1679: (Length of Sequence = 256 Nucleotides)

GGTGTCCACA GCCTGCTGCC TGGCCTGGAG CAAATACCTT TGTTAAGTGC TCAGAGGGTA TGGCCCCCTCA AATCCACCTT
GCAGCTCCCT GGCTGCAAT ACACCTACTC CATCTTTTCA ACTCGCTCCC TGGACCCCTG GTTAACACTT CACTGTAACT
CCTCAGTGT ACAAAGCATT TTCAATTGAA TACAAAGGC AACTINGNAC CANATGGGCA TCCTTGAGCC ATGGTAAACA
CTGAATTNA GGCTCA

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CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG
TTTTATAATT CTCATGTCCT GATCAGATCT GAAGGGAATA GGCATACCCT CC

SEQ ID NO:1692: (Length of Sequence = 360 Nucleotides)

TTTTTTTGGC AAAAATAGTA TATATTTATT ATGTACAACA TGTATTTTGA GATATGTATA CATTGTGGAA TGTCTAAATT
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCAAT TCACAAATTT
GCATGTTATC TTTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTINCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA
CCCTAATTCC TTTCATTTAA GGNCTAGTT AACCTTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTTA
TTACAAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCGGC TGCGATGTG GAAATTTGTT TTTGGGACTT CACCGTACT CTGACAAGCA CAACGTCCG
TATGATTACA AAGCAGAAGC TGCGACAAA ATCAGAAAAG AGAATCCAGT TGTGTGGCT GAAAAATTC AGAGAATATA
AATTACTTCT TGTGAAGAGA CTGAACTTT GTTTTATTT TAATATATCG TAGGAAAACA TTAAGAGCA GATGCATGGC
CATTTTNCIT TGATGTTCTC CAGAGTTTA CATTACACT GTCTGTCTTA TAATGATAT TTTAGGGATG TTTGGGTGTT
TGTTACAGGC AGAATTGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTTT ATTGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGG GCTGGTGTGG GGAGCAAAGC
NCCGGGCTG CCCCAGACC TGGTTTCCCT GAGGACCAAC GTGAATGGGG GCCCACTGG AAAGATGCTT GGGGCTGCAG
AGCGGATGGA ATGCAGGCC AGGTGCTGG GTGGTCCCT CAGCTCTGG CAGGGTGGAC GGGTGGTGGC CGCTGGGCTC
TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGCTTCCA GCTTCACTC CGGGCTGCT CGTAGTGTG AGTGAACCAA
GCACAGGTCT CTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GGGTTTGAAC TGGACATCCT AATGATGCAA TTACGTATC ACCCAGCTGA TTCCGGGTGG TTGGCAAAT
CATCGTGTCT GTCTGAGAG GCTCCACAAT GCCACCCGC ATCGCCATTC TGATGTCTT AGGGTCAGCT GTTGATAAAG
GGGCAGGCTT GCGTATTGG CCTAGATTTT GCTGCAGATT AAATCCTTTG AGGATCTCT TCTCTTTAC CATTTTNCIT
CGTGCTCTCA CTCTCTCTT CTCTCTCTAG CTTTTAATT CATGAATATT TTCGTGTCTG TCTCTCTCT TCTCTGTGTT
TCCTCCAGCC CTTGTCTCG AGACGGTGT TTCTCCCTT GCCCATTATC TTTTCAACTC CCAGGGCTAC CCATTTCAAT
GGTGGGTCGT T

SEQ ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTTGTGATG TTTTACGCT TTACAAAAAG CAGATTGGT ATTACAGAAA GCCTGCAAAT ACAACATTC TTAAGAGAAC
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAAG
GTGACAGAAA AGGAGAGGGA AGGATGGGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NIGTGTTTAA TTTATAAGGT
TTTCTNCCCA CAGGAGTTCT NNTGTGATCT ATCCGTTTAT

SEQ ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTCTTTCAT TTACAAGAGG AATATATTTG GCTTCTCTCT TAAGACTCTG AGATTACAA TCAGCAGCTC TAAAAAATAA
AGGAGCAGTT TGGCTTCCGG AAGGAAGAGG AGGCAACACT CGGACCTGGT TCTTGTACAA CAAGAAAACA TCGCTGGGGC
CCGCTGAGG CTGGAGTGGG GGTGGAGGCT GGTCTTTGGA GGATGCCACC CCCACCCAT CCTCTTGTCA GGCCCTGGG

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TGAGAGAATA AATGGGTAAT GGGAGGAGAA CTATTTTAAC AAGGGTCCTG GGTTCCTCTT TGCAACACA GTAGGCTTAA
ACTTTGCCTG CTTTTTAAAA TGGCATTTT

SEQ ID NO:1686: (Length of Sequence = 445 Nucleotides)

TGCTTCATA ATATAACAAC ACTAATACAC TAATAGTAAG ATTAAGTTAG GCAGTCTTCT ACCAAATGTG TAATGGAGAT
TGCCTCAAAA TTGTGTCCAC ATAATCCACG CTCATCTTGC AAAGCGCTAT TTCAGGCACT TTTTTTTGAG AAAGAGTCTC
ATTCTGTCCG CCAGGCTGGA GTGCAGTGGC GCAATCTTGG CTCACAGTAA CCTCTGCCCTC CCGGGTTCAA GCGATTCCCC
CGCCTCAGCC TCCCGACTAG CTGGGACCAC AGGCACGNAC CACCACGNCC GGCTCACCTT TGTATTTTTA AGTAGAGATG
GGGGCCTCAC CATATTGGGT CAGGCTGGGT CTTCAATCTN CCTGGACCTC ATGNTCCACC CGCCTTGGGC CTNCCAAAAG
TGCTTGGGGA TTANAGGGAA TNGGCCACC GGGGCTTGGG CCAAT

SEQ ID NO:1687: (Length of Sequence = 170 Nucleotides)

AAAAACCAA TAAAGCAATA ACTTTAAAGA CCTCAGACAC ACACAGTATA AACACCTGGG TAAGGTTTTN TCGTGTCCA
TGTTGACACC GGAACACCG TTAAAGTGCA AGTTTGTGT TGTGTTCCTT TGTGCAGTTT CACTCACATG TAAACAAGTC
ACTTGGCTAT

SEQ ID NO:1688: (Length of Sequence = 386 Nucleotides)

AATGTGATTT GATGTTAACA CTAGAGAATG ATGACTGTAG AACATTTGAG CAAGTAAAT AGTAAAGCAC ATAGTGAGTG
TATGTCCATC TAACGGTAC ATTGATAATT TAGTTTGGGC ACATAAAAGG AATATTTATA TGGCTTCCCA AATGCAGAGT
TACATCTTAT TCGTGATTT CTCTGAGTAT TTATATCCCG TCTCCTTTTT TCAITCTTAA AAATAAATGA ATTTTCACTG
TTGGCACATA TGAGGCTTAA ATATAAGGAG CATAACACTT GCATTCATAT TTTTGCATAT ATTGTAAATG TGTCTGGTAT
TTACAGCAA ATACTGTGTA TCCTTTATGG GTAAACAAAG TGACATTGCA TGCATGTAAT GTGATG

SEQ ID NO:1689: (Length of Sequence = 400 Nucleotides)

CTTCTGTGG ATCAGCGTAT TCCTAGATTA GGAATTCAAA TTAATGAAAA TTCACATATG AAAGGAAAAT CCAITGCTAT
TTCTGGAGAG GACCTCAGTC CTGGGCTTTT CCCTGGCAIT GCTACCTGGG TGGGTGCTCA CCACTCAGGT GCTGGTGTG
GAAGGCAGGA GGAGGAACCT GAAATCCTGC CGATTAAGGC TAAITAACAG GGTTTAGGTG CCTAATTATC ATGACTCAGC
CCGGGACTTA TGGTTAGCCG TGCAGGCCAG GTGAGTCTCT TATGGACTTC CTCTCAGACT GCTCTTCTC ATTTTGTCT
GATGAGATAT TGACAGTCAT GTCCACCCGC TTCTCATCC ATTTCCCGTC TTTGGGCCCT GGAAGTACG GGGGCTCTG

SEQ ID NO:1690: (Length of Sequence = 337 Nucleotides)

AGINATATAC CTTTAAAGT AACTAATGCA ACTGCCAAN AGGGACAGTG TCAATATCAT TGINTTCATT AGAAGGACGG
CTGCCCCACA CTGTNAGAAC ACTGCTGTTT CTACAGTAG TTTACTTTNA GAGGGATGTA AGAATTAGTT TNACCTAAT
TCCAGATGTG CATGCTCAA AAGAAAAATC CCAITCTCCT TCCTTTTGGG GAGCACTTTT GGTGGCACCA AGGCTGGTGT
GGGGTAGTGG AGAGAGCACT GAGCTTAGAG TCACAACCAG ATGAACTGC TCTGGTCTT ACTAGCTGTG TGACTTGGGC
AAGCAGCTTG CAGTCTC

SEQ ID NO:1691: (Length of Sequence = 372 Nucleotides)

TCATCTCCC AAAGTGCTGG GATTATAGGC GTGAGCAGT GCGCCAGCC TTACTTATTT TTAAATCAGA TTTTTAATC
AACTAAAACA GCTATGAGTT AAGTACCTGC CCTGCAAAA TTTTATAGAA AAGTTTATAG ATTATGAAAT TAAGAAATAT
TTTCCCTAAC TGAACAGTT CTAAATTTA TCTGATACTT CTCTAACAAG TGAGTGATCT CATGTAACCC CAGTTTGTAT

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CTTAAAGGCT GCAGCATAGA ATTGAGCTGT ATAACAGTGT TAGAACTGTC AAGTGATAAT CACAGAACAG TTTGTATCGG
TTTTATAATT CTCATGTCCT GATCAGATCT GAAGGGAATA GGCATACCCT CC

SEQ ID NO:1692: (Length of Sequence = 360 Nucleotides)

TTTTTTTGGC AAAAATAGTA TATATTTATT ATGTACAACA TGTATTTTGA GATATGTATA CATTGTGGAA TGTCTAAATT
GAGCTAACAA ATACATTATC TCACATACCA TGTTTTTTTG TGGTGACAAC ATTCAACAAT ATAGACCATT TCACAAATTT
GCATGTTATC TTTGTGCAGG GGCTATGCCA ATCTTCTCTG TATTTTTNCA ATCTTGGTGT ATGTGCTGCT GAAGCACACA
CCCTAATTC TTTCAITTA GGNICTAGTT AACCTTTCTC TTAAGTATAA CCATGTATTT TGTTAAGCAA TATCTTTTTA
TTACAAAAAT GCCATTTTTT TCTGGNTAGG AAAATTGATT

SEQ ID NO:1693: (Length of Sequence = 378 Nucleotides)

GACAAAAAGA GGGGTCTGGC TGCCGATGTG GAAATTTGTT TGTGGACTT CACCGTTACT CTGACAAGCA CAACTGTCCG
TATGATTACA AAGCAGAAGC TGCAGCAAAA ATCAGAAAAG AGAATCCAGT TGTGTGGCT GAAAAAATTC AGAGAATATA
AATTACTTCT TGTGAAGAGA CTGAACTTT GTTTTTATTT TAATATATCG TAGGAAAACA TTAAAGAGCA GATGCATGGC
CATTTTNCIT TGATGTTCTC CAGAGTTTAA CATTACACTT GTCTGTCTTA TAATTGATAT TTTAGGGATG TTTGGGTGTT
TGTTACAGGC AGAATTGGAT AGATACAGCC CTACAAATGT ATATGCCCTC CCTGAAA

SEQ ID NO:1694: (Length of Sequence = 362 Nucleotides)

AATGCACTTT ATTGGCTCCC AGGGAGTGGG ATGCAGGATC AGAGTGGACA CGCGCAGGGG GCTGGTGTGG GGAGCAAAGC
NCCGGGCTG CCCCGGACCC TGGTTCCCT GAGGACCAAC GTGAATGGGG GCCCCACTGG AAAGATGCTT GGGGCTGCAG
AGCGGATGGA ATGCAGGCCC AGGTGCTGG GTGGTGCCT CAGCTCCTGG CAGGGTTGAC GGGTGGTGGC CGCTGGGCTC
TGCCAGCCGA TGGTCCNCTG GCACCTGATC CTGTCTTCCA GCTTCACTTC CGGGCCTGCT CGTAGTTGTC AGTGAACCAA
GCACAGGTCT CCTTGACCGN CTGCTTTNAA GGGTGTGAAN CG

SEQ ID NO:1695: (Length of Sequence = 411 Nucleotides)

TTAATACAAG GGGTTTGAAC TGGACATCCT AATGATGCAA TTACGTCATC ACCCAGCTGA TTCCGGGTGG TTGGCAAAC
CATCGTGTCT GTCTGAGAG GCTCCACAAT GCCCACCGC ATCGCCATTC TGTAGTCTTC AGGGTCAGCT GTTGATAAAG
GGGCAGGCTT GCGTTATTGG CCTAGATTTT GCTGCAGATT AAATCCTTTG AGGATTCTCT TCTCTTTTAC CATTTTNCITG
CGTGCTCTCA CTCTCTCTTT CTCTCTCTAG CTTTTTAATT CATGAATATT TCGTGTCTG TCCTCTCTC TCCTGTGTT
TCCTCCAGCC CTGTCTCTGG AGACGGTGT TTCTCTCCTT GCCATTATC TTTTCAATC CCAGGGCTAC CCATTTCAAT
GGTGGTCTG T

SEQ ID NO:1696: (Length of Sequence = 280 Nucleotides)

CTTTGTGATG TTTTACGCT TTACAAAAAG CAGATTTGGT ATTCAGAAAA GCCTGCAAAT ACAACATTGC TTAAGAGAAC
CTGTAAACAC GTTTGGAATA CAATGCAACA CAAGTCAGCA AGGACAGGGG TAGGTCCAAA GGAGCCAGCT AGGGGGAAAG
GTGACAGAAA AGGAGAGGGA AGGATGNGA CAGACATCAC CTGTGGTCTC TAAGGGGGCC NTGTGTTTAA TTTATAAGGT
TTNCTNCCCA CAGGAGTTCT NNTGTGATCT ATCCGTTTAT

SEQ ID NO:1697: (Length of Sequence = 418 Nucleotides)

ATTTCTTCAT TTACAAGAGG AATATATTG GCTTCTCTCT TAAGACTCTG AGATTCACAA TCAGCAGCTC TAAAAATAA
AGGAGCAGTT TGGCTTCCGG AAGGAAGAGG AGGCAACACT CGGACCTGGT TCTGTACAA CAAGAAAACA TCGCTGGGGC
CCCGCTGAGG CTGGAGTGGG GGTGGAGGCT GGTCTTTTGA GGATGCCACC CCCACCCCAT CCTCTGTCA GGCCCTCGGG

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GTACCCAGAG GCTTNGTGGG TGAGTATTCC ACCTGCTTAC ACACCACTGA AGCCACAGCC AGCCAGTAAC TAAGGGGCAA
GAAAGAGCAT TGTCGAAGCT GGCTCTTTNG GGGGGTCCCC CATNGGCCA CAAAGGCCTC ACCCCCCACC CCATCCCCGT
AACCAGAAAC CACCTTGA

SEQ ID NO:1698: (Length of Sequence = 376 Nucleotides)

ATTTTATTG TTTATTTACT TATTTTTTAC CCTTTTTTCA AGAGATGGGG TCTCACAGTG TTGCCCAGGC TGGACTTGAA
CTCCCACTCC TGGGCTCCAG CAGTCTCCT GCCTCACCTT TCCAAGTAGC TGGGGCTATA AGTACACACC ACCATGCCCA
GCAATATTTT AATTTCGTGA ATGTGTCAIT TAGCCAGTGA TTGTGTATT ATAATAGAAT CACAGAAATG GAGGGACTCC
TAGAGGTAAT CAAATCTGGT GGTTTTTAAG CCTTTTATTC CCTCTAAAGG GATAGTAAAA CCATTAAAAA TATAATTTTT
CCCAATTATG TAAGCCAGRG AAAGCTGACC TYCTGGTTTA GAGAGGAACA CAGATG

SEQ ID NO:1699: (Length of Sequence = 365 Nucleotides)

GGTACATGTG CACAACGNG GNGTTIGTTA CATATGTATA CATATGCCAT GTTAGTGTGC TGCACCCATT AACTCGTCAT
TTAGCATTAG GTATATCTCC TAATGCTATC CCTCTCCTC CCCCCTACGC CACAACAGTC CCTGGTGTGT GATGTTCCCC
TTCTGTGTG CATGTGTTC CTATTATCAA TTCCCACTA CGAGTGAGAA CATGCTGTGT TTGGTTTTTT GTCCCTTGGA
TAGCCAGATG CAGTACTCT TAATGTGCAT ATTTTCATCC TAGAACAATG GAGAGTTCTT GTAAAAGCCT TGTGTTCAG
GAGGAAGGAG ATCTTGACCC TTCTGCTGAT GGCAGCAGTC AGGGG

SEQ ID NO:1700: (Length of Sequence = 397 Nucleotides)

AAAGGCAGTC AAGCAGGAGT TAAACAATAT GGACCTAACT CTCCTTATAT GAGAACAATTA TTAAATTCCA TTGCTCATGG
AAATAGACTT ATTTCTTATG ATTGGGAAAT TCTGGCTAAA TCCTCCCTTT CACCCTCTCA GTATCTCCAG TTTAAAACCT
GGTGGATTGA TGGGGTACAA GAACAGGTAC GAAAAAATCA GGCTACTAAT CCTGTGTCTT ATATAGATGA AGACCAATTG
CTAGGAAGAG GTCCAAACTG GGACACTATT AACCAACAAT CAGTAATGAA AATGAGGCTA TTGAACAACAT ATAAGGCTTA
TTTGCTCTAG GGGCCTGGGA AAACATTGAG GACCCAGGGA ACCTCATGCC CTTCCTTTAG GTTCAATCAG ACAACCT

SEQ ID NO:1701: (Length of Sequence = 245 Nucleotides)

GTCTAGGAGG AGGCCTTCTG CACAGAGCCC CTGAAGAACA CAGGCAGAGG CCCCCACTT GGCTTCTACC ACGTCCAAEA
CATCGCAGTG GAGGTGACCA AGTCTTCAT TGAGTACATC AAGAGCCAGC CCATGTGTTT CNAGGTCTTT GGCCACTACC
AGCAGCACCC GTTCCCGNCC CTCGTCAAGG ACGTGCTCAG CCCCCINAGG CCCTGCGGCC GTCACTTCCC TCGGGTCATG
CCACT

SEQ ID NO:1702: (Length of Sequence = 349 Nucleotides)

ATCTGTGTG AGCACAGTTT TATTGCTGT GGAATCCATG AGAGCCGGAA GCATCGTTGG GGCCGTGGCT AGCAGAGCTC
ATGGTGACCA GTCTGGGCC TGACCAATGG GTGATTACAT TTAAAAACCA AAACAAAACA AACAAAATA CCAAGAACAG
ATCACTTGCC ATGGACATCA GTAATCTATT GGTAAATGGTG AAAATTTTCAT GAAAATTTCC CCTAAACCAT AACAAAAACT
GTCTCTCTTA CCCCCAAAGT GCTGGAGGGA AAGATGGTGT CATGGCTTTG ACCTCTCTTT GAACCTGAAA TGCTACCTTC
CTACCCGGAA AATGCGGCAC ACTATACTT

SEQ ID NO:1703: (Length of Sequence = 419 Nucleotides)

GAGCCCTGTC CTCCAGAAG CTCACATCCT CTTACTCATG GCAGACAAAT AAACGTGAAT TACACTGCAG GGAGGTAAGT
GTGGCAGCAG ATGTAGTATG CAGTGCAGAG GTGGCCATGG TTGCGAGGCG AAGGAGGGCT TCCTAGCATG GGCGTTATTT
GACCAGAGGC TGGCGGTGGC TTTTGCTAGC AGTGTGATG TNACTGAGC CAGGGACAGA TACCTCTNTG AGCCTTGGTT

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TCCTCATCTG TAAAGTGGTT AAAGACTGAN TAAAGCAAAA TATGTGCAAA CAGTCTGTGA ATGGGGAAGT AACAGATGTT
GCTTTCTATT ATGTTCTCTC CTAGCCATGA ATATCAATTA TTTCAGAAAT GAAAAGGGAT CCTGCACCCA ATTTCAAATC
AAGCAAGTTC ACCTAGAGG

SEQ ID NO:1704: (Length of Sequence = 372 Nucleotides)

GCTTCCCGAA GGTCTTGGAC GAGCGCTCTA GCTCTGTGGG AAGGTTTTGG GCTCTCTGGC TCGGATTTTG CAATTTCTCC
CTGGGGACTG CCGTGGAGCC GCATCCACTG TGGATTATAA TTGCAACATG ACGCTGGAAG AGCTCGTGGC GTGCGACAAC
GCGGCGCAGA AGATGCAGAC GGTGACCGCC GCGGTGGAGG AGCTTTTGGT GCGCGCTCAG CGCCAGGNTC GCCTCACAGT
GGGGGTGTAC GAGTCGGCCA AGTTGATGAA TGTGGACCCA GACAGCGTGG TCCTCTGCCT CTGGGCCATT AACGAGGAGG
AGGAGGATGA CATCGCCCTG CAAATCCACT TCAACGTTCA TCCAGTCCT TC

SEQ ID NO:1705: (Length of Sequence = 426 Nucleotides)

GATGCCCTAT TTAGTCCATT TGGTGAGGTA ATGTTTTCTT GGATGTCTT GATGCTTGTA GACATTTGTT GATACCTGGG
CATTAAAGNG TTAGGTATTT ATTCCAGTCT TCACAGTATA GGCTTGTTTT TAGCCATCCT TTTTGAGAGG ACTTTCCAAG
AATTCAAAGG GGATTGAGTG TTGTGACCTA AGCCTATGGT CACTGCAGCC ATTTCAGCAC TAGAGAGTGC CCTAAGCCCC
GGAATGCTGC AACTCTTACA GACTCCTTGA TACACAGCTT TGGTAGATTT TGGGAAAATA AGGGAGAATT CCTGGGGTT
ACCAGGTAAG AAGTCTCTCC CACTTCCCTC TCTTTCTGGC AAAGGAAGTC AGTCTCTGCA CCAGGCTGCC TGGAGTTTGG
GGGAGGGATA AGGCGGTCAC TCTAAT

SEQ ID NO:1706: (Length of Sequence = 412 Nucleotides)

ATTTTATTTT CTTACATCGA AGAAAAATGTT AAAGAGTATC TNCAGACACA TTGGGAAGAA GAGGAGTGCC AGCAGGATGT
CAGTCTTTTG AGGAAACAGG CTGAAGAGGA CGCCACCTG GATGGGGCTG TTCTATCCC TGCAGCATCT GGGAAATGGAG
TGGATGATCT GCAACAGATG ATCCAGGCCG TGGTAGATAA TGTGTGCTGG CAGATGTCCC TGGNTCGAAA GACCACTGCA
CTCAAACAGC TGCAGGGCCA CATGTGGAGG GCGGCATTCA CAGCTGGGCG CATGAAAGCA GAGTTCTTTG CAGATGTAGT
TCCAGCAGTC AGGAAGTGA GAGAGGCCCG AATNAAGGTG TACATCTATT CCTCAGGGAG TGTGAGGCA CAGAAACTGT
TATTCGGGCA TT

SEQ ID NO:1707: (Length of Sequence = 434 Nucleotides)

GTGTGTCTGC AAAAAAAAAA AAGATTCTAG GCATGGTGGT GTGTTGACTG TAGTTCCAGC TACTCCAGAG GCTGAGGTGG
GAGGATTGGT TGAGCCTGGG TGGATGAGGC TCAGTGACC CATGATCATG CATGGGAGAC AGAGCAAGAC CTTGTCTCAA
GAAAGGAAAG AAATCACTGG CTCTTCTGTA AAAAAATGATC TGTTAAGAGT AATTGAAAAA ATAAATACAA GTAATAAAT
AATCTTTCAT TTAAGAAATA CTACCAAAT TAACATGGAG ATCTAGCAAA AAGTCAAAAG CAGCTNCGCG TGGTGGCTCA
CACCTGTAAT CCTACACCT TGGGGAGGCT GAGGCGGGAG GNTCGCCTGA GGTCAAGAGT TCGAGACCAG CCTGGCCAAC
AGAGCCAAGT CTCTACTTAA ATACAGATTA GCTT

SEQ ID NO:1708: (Length of Sequence = 440 Nucleotides)

GGACCAGGAC TCCAGCACCT TCCTGGCTG CATCAACAAT GCCCACTCT TTCAAGATGA GATAAACTGG CGCCTCAAGG
AGGGACTGGT GGAAGGCGAG GATTATGTGC TGCTCCAGC AGGTGCTTGG CATTACCTGG TCAGCTGGTA TGGTCTAGAG
CATGGCCAGC CACCCATTGA ACGCAAGGTC ATAGAGCTGC CCAACATCCA GAAGGTGGA GTGTACCCAG TAGAACTGCT
GCTGTCCGG CACAATGATT TGGGCAAATC TCACACTGTT CAGTTCAGCC ATACCGATT TATTGGCCTA GTATTGCGCA
CAGCTCGGA GCGGTTTCTG GTGGAGCCCC AGGANGACAC TCGGCTTTGG GCCAAGAACT CAGAAGGCTC TTTGGATAGG
TTGATATGAC ACACACATCA CGTTTCTGTA TGCGGCCCTT

SEQ ID NO:1709: (Length of Sequence = 404 Nucleotides)

TTTGTCCTAT GTAGAATTGC CTATAGTAAG AAAACCCAGT AGAGAAAGTG GTTTNAGAC CATTCCGGCAG CTGCTTTGGA
CACCTGGAGC CATTTCTTTT ACAGATGAAG ATGCATTGIG TCATTGTCTC AGGATCCTCG TCCTGTTGCT TCTCTGGCCA
CAAATTGTTT TTTACCAAAG ATGATTTTAT TTCCTGTCTT TTGAAAATCA TTCCTTATAG GTAGAATATG AAGATTCTCT
GAAATGATTC CAAATGCCA AACTCAAACA CTATTGTCCG ATTCTTTTAC TTGCAACAAG AGAGTAGAAG GGACAGTATT
TGTTTGTGA TGTGCGGCG TTCATCAGG AGAGAATTG AGATAAGTAG GAATAGCAA TAGGAATAGT GAAATAACCT
AGAT

SEQ ID NO:1710: (Length of Sequence = 187 Nucleotides)

GGTGATCTGC CGACCAGAG CCTTAACTC TGGTGTGAG TACTACTGG ACCAGCTGAA CGAGACGGTC TTCCTGTCC
ATTCCAACAG CAGGAGCAGC GAGCGSCTGG ACCAGGCAGA GCACATGGAG GACAGCAGAG ACATGGGCTG ATGAATGCAT
TGGGCTTCAG CCGACCTGCA CTCAGT

SEQ ID NO:1711: (Length of Sequence = 313 Nucleotides)

AGGGGCATGT NATCATTINA ATGATGINAT CTTGGTGT TCCCTCATT GCTGTAGACT ATCCCTCTC CTCCACCAC
AATGTTTCTA TGATGAGTA CAAACAGAAA GGAAATCACA TTTTCATACT AAAACAAAA TGATCAGAGC CTTGATTTCT
CCACTAGAAA CTACACGTAC AGTTAAGAGT CCACATGCAA CACCTTAAAT CACAGACTGA GGACCTCACA TTCTGACCTG
GGAGTCTCT CCCCTTCCCC AGCCTTGGGC TAGCTTTGGC CTAGGCTCAG GTAATACTGA CCCCCACAG CGT

SEQ ID NO:1712: (Length of Sequence = 202 Nucleotides)

TTTGGTGGT TTCTCTTTA TTGTGTGCT CCTACCTTC CCCACAATT CAGTCCCTC CAACACCCCA AAAAGAAGGA
GTGAAAGGAA GGGATTGCTG GGGTCTGAG CCCTTGGCAG TCAGAAGGAC AGAACCAAAC ATCACTGGAT GTGACACAGC
TGCATCAAGA AGTCTACAGC AGTATGGGAA GCGGCAGAGA AG

SEQ ID NO:1713: (Length of Sequence = 253 Nucleotides)

TGATTCANTG GGCTGGGAT AGAGTCTGGT ATTCTGCATT TCTGACTAGC CTCCAGGTGA TACTGATTCT CCTCATCTAG
GGACCTCGCT TTGAGTAGCA AGTGTITAGG CCACTTACTA GCAGGAATA AGCACAGTAT CCTACAACAG CAAATGTCTT
TCCAACAAGA AAGACGAGAG CAAATNCTGA TGCCACATCT GCACTGCCTC AGAAAATAAA GAAGGGATGA GGAGCCCCC
AGTGGCACTC TGT

SEQ ID NO:1714: (Length of Sequence = 299 Nucleotides)

GGTGACGCTG CTTTGAAAAA TGACTTGGCA GCACCTCAA ATGTTAAACA GAGTACCAC ATGACCCAGT AATTTCACAC
TTAAGGATAT ACTCAAGAGA AATGAAACT AAAACATAC GGCTACCCAA AACTTACAT AAGANTGTTT ACAGCAACAT
TATTCATAAT AACCAAAATA TGGNAACAAC CACAATGTCC ATCAATTGAT AAMTGGGTAA AGTCTGGCAA ACTCACAGRA
TGGRATATTA TTTGGTGGTA AAAAGGAGTA AAGAACTST ATGTACTACA ACATGGGTG

SEQ ID NO:1715: (Length of Sequence = 371 Nucleotides)

TTTTTTTTTAC CGGGCGGTTT CTGAGTTTAT TTGGGGCACA CCGGACGAG GGCCCTGCAC CTAGAAGAAG GTGTTGGGCC
TCTTGGTGGT GAAGCGTGGC TTGTGCTGAC GGCGCAGGAC CCGGTGGGCG AGCGGGAAT TGATCTTGA GTCTGGAAC
TGCTTGACAG CCGGCCGGCG GCACTTGCTG GCGCGATCT CCTCCACCTT CATGATCTGA ATGGAGTGGG CTCGGGCGCG

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GTGCCGGGCA CCCATGTCTC GGTAGCACTG GGTGACAGCG CCTGCGGTGG TCAAGTCCCG GTATTCCCGG TACATGTGTG
GGGTGCCGCT CCGGGAGTCA TAGCGCAGCA AGATCCCGAA GTTCTTCAAC C

SEQ ID NO:1716: (Length of Sequence = 265 Nucleotides)

GTGCAGAATC TGCTCCTGGA CACCCACAGG GGGCTGCTGT ATGCGGCCTC ANANTCGGGC GTAGTCCAGG NGCCCATGGC
CAACTGCAGC CTGTACAGGA GCTGTGGGGA CTGCCTCTC GCCCGGAACC CCTACTGTGC TTKGAGCGGC TCCAGCTGCA
AGCAGCTCAG CCTCTACCAG CCTCAGCTTG CCACCAGGGC GTGGATCCAG GACATTGAGG GAGCCAGCGN CAAGGACCTT
TNCAGCGCGT CTTGGTTGT TCCCC

SEQ ID NO:1717: (Length of Sequence = 350 Nucleotides)

CAGCCCCGC AGCCCTCTGG CCCCCTCCAT CTCTGTCTCG TCCCCACCA CCCCCCTCCT CGGCCGAGC CTTTTCCCGG
TGGGTGTCAG GNTCACTCCC ACTAGGGACT CTGCGCTAAT TACCTGAGCG ACCAGGACTA CATTTCCTAA GAGGCTCTGC
TCCAGGAGTC CAGGAAAGAC GAGGCACCTT GGCCGCGGGG CCTGCTGGGA CTGTAGTTG CCTAGACAGG GCACCACCTT
GCACTTCCG ACCCGCGTG GAGGCGCGT GAGGTTTGGT GTCTCGAAGC AGCAATTAAA AAGCAAGAGG ACTTCATGAC
CACCATGGAC GSCAATTAGG AGAAGATCAA

SEQ ID NO:1718: (Length of Sequence = 379 Nucleotides)

GACATGGAGA CTCACATGGC TGCAGAACAC TGTCAGGTGA CCTGCAAATG TAACAAGAAG TTGGAGAAGA GGCTGTATAA
GAAGCATGAG GAGACTGAGT GCCCTTTCG GCTTGCTGTC TGCCAGCACT GTGATTTAGA ACTTTCCATT CTCAACTGA
AGGAACATGA AGATTATTGT GGTGCCCGGA CGAACTATG TGGCAACTGT GGTGCAATG TCCTTGTGAA AGATCTGAAG
ACTCACCTG AAGTTTGTG GAGAGAGGGG GAGGAAAAGA GAAATGAGGT TGCCATACCT CCTAATGCAT ATGGATGAAT
CTTNGGGTCA GGATGGAATC TGGATTGCAT CCCAACTCCT CAGACAAATT GAGGGCTCT

SEQ ID NO:1719: (Length of Sequence = 197 Nucleotides)

CCTATATTTG TTAAATTAT TTAAGACCAC CTCCTTACAA CTTCAGAGA GAAAATACAA AACAAGAAAC AGACTTGGTT
TCAAATGCAT AACCAGGTGC TGGAGTTTAA AGCATTACTG ATAACATTGT TACAGAAGAA TGGCAGCTTA CTCCAGGGCA
CTTCAGTATT CCTGAGGAAT AAACATGATT TCGGAAG

SEQ ID NO:1720: (Length of Sequence = 203 Nucleotides)

GAGGGCGGG CAGAGGGAGC ATGACGGGA GAGTGAGGAG GAAAGAGGAA AGGAAGGCCA GGGTGGGAGG AAGGATCANC
TAAATCTGAG GGAAGAAGAA GGAAAGGAGA GGGCCTATTT CATAGCAGAT GCAAATRAAG GNCCTGGGG CTAKTCAGGA
AGAAAGGGAA AGGGAAGGAA GGCAAGAGAG AGGGGTGAAG GGA

SEQ ID NO:1721: (Length of Sequence = 326 Nucleotides)

GGTGACGGA TGTTTAAATG CAATTCGTAT AAACCAAGCC CATGCACAAG TAGAAAGTGC CCGTGGAGCC GGCAGGAGGC
CCCCGCGCG NTAGAGAACC ACAAGCCCG CCGTGACGCC CTCCCCGCG CGCCTTAAAT AGATTCTTCA CTATACTCTG
TATGTTACAG TATGTACAAG ACCCTCCCC TCGGGGACG GGGCGGACTN CGCAACNGT TCCTATGTAC ACCACCTCCC
CTTTCGGCCC TGAGGTCAGT GGCCAGAGTC GGTGATGGG GTAAGANAGG GCCAGAGAGG GAGGAAACAG ACGCAAACAT
GCGGAG

SEQ ID NO:1722: (Length of Sequence = 291 Nucleotides)

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TGTTTTTAAA AATGAGAAAA TTGGAGAGA GAATACTATT ATGTCAACGG TACAAGACTC TGAATCTTGA AGATGTAGAT
GGATATAATA TTAGACTTTT ATATACACCC ATAGATAATG ATTTATATAT GCATACGTTT TGTATAAATT TACAATTGAC
TTTTTGTATT CTCTTTNCTG TCATTACAAG AATGAGATGG AAACCAAAT AGTTGTCNCA TCCTCTTACC CAAAGAGGGA
TACTGAAAAG TCCGGTATGT GCATGCACTT GTTCTCTCGG GGTCAAATCT G

SEQ ID NO:1723: (Length of Sequence = 369 Nucleotides)

GATGCCCCC TCCCTCGATT CCTTCCTGTT GTCTCCAGAA GCTGCTGTTG GCTTGCTAAA AGGGACAGCA CTGTCTTAG
CCCCATTACC TTGGGATAAG ATTACCGAAT GTCTTAGTGA ACTATGTTCT GTTCAGGTTA TGGCATTGAA AAAGCTGTTG
TCTCAAGAGC CCAGCAATGG CATATCCTCA GATCCCACAG TGTTCTTAGA TCGCCTTGCA GTGATATTTA GGCATACCAA
TCCCATTTGIG GAAAATGGAC AGACTCATCC GTGTCAGAAA GTCATACAGG AAATATNGCC AGTTTTTATC CGAGGACTCT
AAAATAAGCA CCGAGCTGNA TAATCGGATT GTAGAGCGTT GTTTCAGG

SEQ ID NO:1724: (Length of Sequence = 231 Nucleotides)

ATGTATGTT AGTTCGATTC CTCAAAATTT TATACATATT TACTTTCTGT TAAAGAGAAA AGGATAAAAT GGTATAAAAA
AAGATAAAGC TATTAATTAA GCACGAGAGA GAAGATAAAT GGATATTTTC CCTGTGTGAG GCTAAGACAG AWGCAAATCT
CGTTANGAAA AATGCCACCC ACACAACAGG AANTTTATCC AAAACAAAAC AAAAGCAGTT ATAGANCCCC T

SEQ ID NO:1725: (Length of Sequence = 317 Nucleotides)

GTGCAAGGTA GGGTACATAT GGCTCTGTCA GAAGAATACC ATGATTTAAG GGAAGAAAGT ACACAAGGTA CATGGAGGGT
ACACAGGGAA AGTACATTA TAAACATGGA CGTGTGCAAA TAGGAAAGAC ATGACTCAGC ATGCTAGACA AATTGCACAT
GCCTACCCAA ACACGCTTA GGGCAGACCC ATGACCATGA GAGGGGCACA CGTAGCTGTG AATGCAGGGC ACCCGAGAGC
ACATGTRACT KAACATGAAG AAAGCATACG GGAAAAGCGT GTKTACACAT GNGCATGTTT AGTGGGGCAC ACGCAGG

SEQ ID NO:1726: (Length of Sequence = 282 Nucleotides)

CTCTTGAACC AGATGAGCAG CCACCGGAAA CAGAAGCAGA GAGAGCCGGA GTCCTGGGAA TCCAGGAAGT CCGAGAGCAG
GGGGTCCAGC ACCCTCAGGA GCAGCAGCAG TCGCCCGAKT TCGCGCTTCA TGGTCTCCTG GCTCTCTTCA AAGTTCCCTT
GCAAGAGCTC CATGAAGCCA CAGAAACACC AGAAAGCATC CACCTCGTTC TGAATGACGT AGAGGATCGG GGAGAGAAGA
TCACTCATGC CTTGGACGTA GCGGAGGTCG AAGTGATACA TT

SEQ ID NO:1727: (Length of Sequence = 285 Nucleotides)

GAGTATTGAT TTCAGGCAGG ACCCAGGTCC CAAAATGTTA GAAACAGTTA TCCTTTTTC CTCTGAGTTC GTTATTCTCT
GGGGCCCCAG TATCCGTGGC TTAACAACCC GGCTGGATAG AAGGCACCTC TTTCCCCACG TTCCAACAAG ATCCAGAGC
TGCTTCTCAT TGGCTCGTCC CTGAGTCAGT CACACTGGAC CGGAAGGTGA AAGGCCCTCA TTGGCCAGNC CCGAGTCATG
TGCCACCCCC TGGGGATCCA GCTGTGGGNC TNCCTTAAAC GCATT

SEQ ID NO:1728: (Length of Sequence = 394 Nucleotides)

TTTTTTTGAT GAGGAGATAT AGCAAAGGGT CATTTGCCCC TCCTTCAGAA AACTTTTCTC CAAATCTCCT TTAAACATAC
TGCCCTTATCT TTCCCTCCAT AACTCCACCA GTCTCTCCAC ATCCCCCTCC AAATCTCTGT ATACATAGGC AAGAGAGGGC
GATTCACAGC ACAAGTCTAG TCCTGGGCGA AACTTCCATC TCTTCTCTCG CATACTCCT GTCTGGGTAT GGGGATAAGG
GAGAGTATGG GATTTTGTTC TCATTACAT GCTTTTTCAA AATTTCTGTA ATATGTGGCA CTTATAAAAT CAGAACAGAC
AAAATGATAT CCGGTAAAAC ATGCAACTGA GAGCAATTG GGGAAAAATC CTCAGGNCAC AAAATGTATT ACTG

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SEQ ID NO:1729: (Length of Sequence = 301 Nucleotides)

GGAAGTTAAA GTATTATTG ATGTGTTTAA ACTGTGTACA TTCTCCACAG ATCATATTAA GNGTITTKTA GKGGAAGTTT
AATCTGTGCA TAGTGGGTAG YGACATGAWT AGGGTCAAAG GGGAGGYAAA AGGAAAAAAA CAAAACAAA ACAGTCACAG
GAAAWTAAAA ATACACCMCA GGTTACCAGA ACCTTCAGGT TTAAAATAAA ANGNAAGNAA AAGCAGAAGC AGTGAGCATC
GGCATCAACC TGTACAAGCA TTACAAAAGG CTCCTGTGAC GGAAACACAA TTGTTCAAAG G

SEQ ID NO:1730: (Length of Sequence = 312 Nucleotides)

GACGRACGCT CTGCCCACGC OCTGAGCGTG TACACATGAT GTNTTCTATG CATTACACCT GCCCCCAGC CCGCCCTGCA
GAGGACAAGA TGGGTGGCCC CGGCTCCCTT TCCCCTAACC GCCCCGCCC GCTGTGCAGC CGTGTGGGTT GCGGTGTGTT
TCTGTGTAC TGGCGTGTCA CGTGATGTAG CCGTGTGTC TGACATGAGC CCCTGCCCC TTCTCTGTTT CTCCGTGTGT
TTCTAGAGCT CTCTCCCTCC CTTTCTCAGA GGGGACAGGA CTCTGGGGT CTGGCTCGGG CCCAGAGCCA GG

SEQ ID NO:1731: (Length of Sequence = 392 Nucleotides)

ATCGGCTATG GGTTCCGGTG CGTGACAGAG GAGTGCCCGC TGGCAGTCAT CGCTGTGGTG GTTCAGTCCA TCGTGGGCTG
CGTCATGAC TCCTTCATGA TTGGCACCAT CATGGCCAAG ATKGCGCGGC CCAAGAAGCG GCGCAGACG TTGCTGTCA
GCCACCACGC GGTATTTCG GTGCGGACG GCAAGCTCTG CCTCATGTGG CCGGTGGCA ACCTGCGCAA GAGCCACATT
GTGGAGGCC ACGTGCGGC CCAGCTCATC AAGCCCTACA TGACCCAGGA GGGCGAGTAC CTKNCCCTGG ACCAGCGGGA
CCTCAACGTG GGCTATGACA TCGGCCTGA CCGCATCTC CTGGTGTGC CCATCATCAT TTTCACGAG AT

SEQ ID NO:1732: (Length of Sequence = 352 Nucleotides)

GTACCTAGTA CCTTAGATAA AGGGAATGT GTGATTCTTA ATGAGCTTTA AAAGGAAACA ACTTCTTTTT TTTTTTTTT
TTTTTGAGAC GGAGTCTCAT TTTTGTCCCC CAGGCTGGAG TGCAGTGGCG CGATCTCTGC TCACTGCAAG CTCGCGCTCC
CGGGTTCACG CCATTCTCCT GCTCAGCCT CCCGAGTAGC TGGGACTACA GGCTCCACACC ACCACGNTCG GCTAATTTTT
TGTATTTTWA GTAGAGACGG GGTTCACCG TGGTTAGCCA GGATGGTGTG GATCTCTGA CCTCGGTGAT CCACCCACCT
CGGNTCCAA AAGTGCTGGG GATTACAGG GT

SEQ ID NO:1733: (Length of Sequence = 321 Nucleotides)

TTTTTGTGTT GTTGTGTTGT TTGTTTGAG AGTCTTGCTC TTGATCTATC TCCCAGGCTG AAGTACAGTA GTGTGATCTC
GGCTTGCTGC ACCCTCTACC TCCCAGGTTT AAGCAATTCT CATACCTCAG CCTCCTGAGT AGCTAGAACC ATAGGCACAC
GCCACCATAC CTGCTAACTT TNCATTTTT AGCAGAGACT GGATTTTGCC ATGTTGGCCA GGCTGGTCTC GAACTCCTGG
CCGCAACTGG ATCTGCCCAA CTCAGCCTTC CAAAGTGCTG GGATTACAGG CATAAGCCAT TCATGTGCGG TTKTCAACT
G

SEQ ID NO:1734: (Length of Sequence = 208 Nucleotides)

AAGTCAACGT ATCTATTTTT ATTATGAAAC ATTAAATTTT GACACATTGC CTCATTTGCT TTTTAAAT CTATTATCTG
ACTTAAACCT ATTACGAAA AATGCCAATA AATTATATTA ATCATACTTT GGGTCTTTTT AAAACTAGGA ACATAATATG
TTTTATGATA AACAATAATA CTAAATCTGA GTGTATGAA CTGTTAAC

SEQ ID NO:1735: (Length of Sequence = 347 Nucleotides)

TCTATTACCT GTACAGTATG GTTATACGT TGGTGAATTT CTAAGGGGGA AGCCGGCCAG GGAGCGAGCC CAGAACGGAC
CGGACGCTG TNCACCCCA GCCCTGCCCC TTGGCCGAG AGGCCTCAGC CCTGGGGAGG GAGGGGGCAC TGGTGCCCCC
AGCCTCTCCA ACCCCCAAAC TGCTGCTGCG GGGAACCCCC CCCACCCCGC CTTCAGAGCC CTCCCCCTTG GACTAGAGCG

GCTGGGCAGA GCTCTAAACA GGGGCAGGGG CTCTCTGCC AGCCTGTGGG CATGGCAGTC ATTCTTGAA GGGGCAGGAC
CTCCGGCCTT GTCCATTTCG GGGGGAA

SEQ ID NO:1736: (Length of Sequence = 356 Nucleotides)

GACACAGGA GGGGAACAAC ACACACTGGG GCTGTGTTGG GAATGGGGGG TGAGGGGAGG GAGAGCATCA GGACAAATAG
CTAATGCATG TGGGGCTTAA AACCTAGATG ATGGGCTGGG CGTGGTGGTT CACGCCCTATA ATCCAGCAC TTTGGGAGGG
TGAGGCGGGC GGWTCACGAG GTCAGGAGAT CAAGACCATC CTGGCCAACA TGGTGAAACC CCGCCTCTAC TAAAAATACA
AAAATTAGCC AGGCATGGTG GTGCGTGCCT GTAATCCAG CTACTCAAGA GCTNAGGCA GGAGAATCAC GTGAACCTGG
GAATCGGAGG TTGCAGTGAG CCAAGATCAT GCCACT

SEQ ID NO:1737: (Length of Sequence = 324 Nucleotides)

TGTTTTCTAA TGATTTTTAA TTTTTCAGAG GAAAATAATT TCAAGAAATA AAACTTAATT CCCCTGAGTC CTTATTGAAT
TAAATATTGA AAAACAATGA ATGAATGATG CATTCTTATT AATGGACTGT AAGAACTGA TATAATGGAC TTCATTCTAC
AATTCGGTTT CTATTGTCT TACACATGCT CCTCGAAGTT AAACATTTTA GGACCTTAAC ACCATTTCCT TAGTACAATT
ACTAAAGAA AGCTTTGGAT AATATAATAT CAGGGAAGAT AGTACAACAT AGTGAAGGAT GACATAGGNN AGATGTGAGG
AGCA

SEQ ID NO:1738: (Length of Sequence = 316 Nucleotides)

GGCACCTGG GCATGTCCAG CTGGAGCAG CTGGAGCAGA ACTTGGCAGC AACAGAGGAA GGGCCCTGG AGCCGGCTGT
CGTGGATGCC TTTAATCAAG CCTGGCATTT GGTGTCTCAC GAATGTCCCA ACTACTTCCT CTAGGCCCAT CATGGCTCAG
GCTGCCAAG GCTTTTINIGT CACCTCTTTT GTTCTCTCAC ACTGACCACT CTGGCCTTA AGCTGACTTA GAAGGGTTT
TCTGAATTGT CTAGATCCAT GCATTATTTT TCTAGCTTCC TGCCTTGCTC CCTATTCACT TTACTCTGTG AAAGGT

SEQ ID NO:1739: (Length of Sequence = 398 Nucleotides)

CAAAAACCAT CTCAGGATAC TGAGAAGCCT CTGGAACCTG TGAGTACTGT TCAGGTAGAG CCTGCAGTTA AGACTGTAAA
CCAACAGACT ATGGCAGCAC CAGTAGTCAA AGAAGAAAAA CAACCTGAGA AAGTCATCAG CAAAGACCTT GTTATAGAGA
GGCCTCGACC AGATTCAAGA CCAGCAGTTA AAAAAGAATC AACTTTGCCT CCCAGGACCT ATTGGAAGA AGCTAGAGAG
AGAGATTGGT TTCCAGATCA AGGATACAGA GGTGAGGCC GAGGTGAATA TTAATCCAGA GGTGGAAGC TATAGAGGT
CTTTATGGGA GGGGCGTGGC AGNGGGTGG TAGGGGACA CACTTCGAGA TTATCCTCAG TATANGGGC AATAAGCC

SEQ ID NO:1740: (Length of Sequence = 376 Nucleotides)

GAATAAATTC GCAAACTATG CATCTGACAG AGGACTAATA CCCAGAATCT ATAAGGAACT CAAAAATCA GGAAGAAAA
AAATCCATC AAAAGTGGG TAAGGACATG ANTAGACAAT TTTCAAAGA AGATATGCAA ATGGCCAGAA AGCATATGAA
AAAATACTCA ACATCCCTAA TTATTGGGGA AATGCAATC GAAACCACAA TGCAATACCA CTTTACTCCT GCAAGAATGG
CCATAATTTA AAATCAAAA AATAATAGAT GTTGGGTGG GATGTGTGA AAAGGGAACC ACTTTTACAC TGCTAGTGGG
GATGNTAAC TACTTCGGCT ACTATAGNAA ANCAGGATGG GNGGATTCCT TAAAAG

SEQ ID NO:1741: (Length of Sequence = 322 Nucleotides)

CAAATGCAA AATCAAGACT TGTCATAAAN TGTATGTCCA TAGCCTATAC TGTTTAAATT ACTNTAATN TATAGTAAGT
CTTGAATTTT AATACAGCAA ATGTTAAACC AAGCTTTCAC TACAGAAATA AACAGAAATT TATAGGCGCT CATTATCCTT
TTAGACAAAG TTGTATTTGC TTGCTATTR TTTTGTITA GNTTTTGTGC AACTATTICA CAAACAGGNA CAAWRATATT

TAAATTGTTA ATAGAARTTT CCAGTTTTCT TTAGTCTCTG GCTACTCCAA GTACTGGTIG CTGTGAATGA CCTTTTCATG
AG

SEQ ID NO:1742: (Length of Sequence = 322 Nucleotides)

CCCCCCAGCC AGGAAAAAAA AAAAAGCTT TGAGGAATGA GAGAGGGTGA GATGGGTGGA AGAAGGTGCT GGGCAGCCAC
GGGCGCCACG CCTCANTGGC CCCAATIGCC GAAGCCGATC TCCTGCTTGT ATCTGTTAGT GAGGATGTTG GCTTTGCGCG
TNAGTTTGA GAGCACAGTG TGCAGCCCGC GCAGGTGGTA GTGGAAC TNC TGTTCAGGT CTTCTTCGCC GCGTCCGAA
CCCTCCAAGT GCGCCAGGTC CACCAGGATG TCCTTGGGAC TTCCAGGCAC TGCCCTNCTC GNTCCCAAGC CGGTNGGAGG
CG

SEQ ID NO:1743: (Length of Sequence = 250 Nucleotides)

ATGGGTAGGG GGCCAACGCA GTCACCGCG TCCGAGTCA CAGTCCAGCC ACTGACGCA GCAGCGCCT TCGTAGAGC
CGCTTGCAAG GAGAACACTG AATTGCCAAC GAGCAGGAGA GTCTCAAGGC GCAAGAGGAG GCCAGGGCTC GACCCACAGA
GCACCCINAG CCATCGCGAG TTTCCGGGCG CCAAAGCCAG GAGAAGCCGG CCATCCGCA GGNCCGNGTC TTTAGCGAG
ACGNGAGTTT

SEQ ID NO:1744: (Length of Sequence = 247 Nucleotides)

GATGATTGAG TGTTCTTTA AAAATAAAAA CCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA GTGTAACAGG
TTAGCCATTA ACACAGNATA AAGAWGGTCC CAGCCACACA CGTCATTACT CGGCAGAGGG TGTCCAGKCT GGTCGKCCGA
CGTCACAGTG GATGGCCCTG CGTGGCTGGG RCACAGACAG GNGCAGGCA TGGCACCTT CENCACGCAG AGCAAGCATA
GGCTGTA

SEQ ID NO:1745: (Length of Sequence = 379 Nucleotides)

TTCTAAACCA GITAATAAAT TCATTCCACA AGTATTTACT GATTACCTGC TTGTGCCAGG GACTATTCTC AGGCTGAAGA
AGGTGGGAGG GGAGGGCGGA ACCTGAGGAG CCACCTGAGC CAGCTTTATA TTTCAACCAT GGCTGGCCCA TCTGAGAGCA
TCTCCCCACT CTCGCCAACC TATCGGGGCA TAGCCCAGGG ATGCCCCCAG GCGGCCCAGG TTAGATGCGT CCCTTTGGCT
TGTCAGTGAT GACATACACC TTAGCTGCTT AGCTGGTGCT NNGCCTGAGG GCAGGGCAGG AAAATCAGAA TAGCATTTC
TTTCTCTGGG GCAAAAATGG GAAAGTTCAG CGGNGNCAG CAGGAATCAA GTGGGCATT

SEQ ID NO:1746: (Length of Sequence = 472 Nucleotides)

TTTCATGCTGT CCCTTCATTG AATTTTAGAA TGATTGAAGA TAGTGGGAAA AGAGGAAATA CCATGGCAGA AAGAAGACAG
CTGTTTGCAAG AGATGAGGGC TCAAGATCTG GNTGCGATCC GACTCTCCAC CTACAGAACA GCATGCAAGC TTAGGTTTGT
TCAGAAGAAA TGCAATTTGC ACCTGGTGGA CATATGGAAT GTCATAGAAG CATTGCGGGA AAATGCTCTG AACAACTGG
ACCCAAACAC TGAACCAAC GTGTCCCGCT TAGAGGCTGT GCTCTCCACT ATTTTTTACC CAGCTCAACA AACGGGNTGN
CAACCACTTC ACCAAAATCC ATGTGGAGCA GTCCATCAGN CTNCTNCTTA ACTNCTGCT TGCAGCGTTT TGATNCCGGA
AGGCCATGTT AAAATTTTCA GTATTGCTT GTCAAAAANG GGTTTTAGGC NCCATTTGTG TGGGAGGGGA AG

SEQ ID NO:1747: (Length of Sequence = 351 Nucleotides)

AGGATCAGAA TACTTTAATA AGATACCAAT GTCAAAATAC ATTTCTTTAT AAAGTTAAGC TCCCATACAG TTATAATGTT
GTCAGTAGGA ATTGACAAT ATAATAACGT TCATGAAATC GTTACGTTGA CAGGTAGGGT TAATATGAAG CTTGGAATAT
TTTCCAGTGT TTTAGTAAAA CTGCAAGGGT AAAATGCCCT TAATGCCAGG GCAACACACA CAGGNAATCA AATACCAGCA

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TTTACACGNC AGTAACCCCTT CAAGTTCCTGC CACCCCTGTGT GGGGGTAATG CCGTGCAGCT AAAAATATGG GTTTTACGNA
ACANCCATGG CCTAAGGGGA TTTCTCATAG G

SEQ ID NO:1748: (Length of Sequence = 428 Nucleotides)

AATAGCTTCA GCTGATTGGG TGAGTCTTAT TCATGTTATA AAAGGTACTC TGCITTCCTT AACATTCCAT AAATCTAAT
CACATCTGCA AATACCTTCA CAGCAACATC TAGACTAGTG TTTGACCCAA CAACTGGGCA CAATAGTTTA GCCAGCTTCA
CACATAAAAC ATCATCACAC TATGCTTCTC TTTCTGTGTT TTTGTTACCA CGTATCTGTT CCATGTGTTT TNCITTTGTAT
ATATCCTATC CTGTCAATATC TCTCCTATGG TTTTGTGGAA ACTATAAGCC TTTCTGGGGG TAAACACTTA TATCTTTGTT
CAATGTGTAA TACATCGNAT AGCATATCAT GCCTGGGGGC ATTGGTTAAA CCCCCATTT AAATACAGCT NGGCAGCAGG
ATTTTAGGCA TTCCGTCTAG GTGTGCCA

SEQ ID NO:1749: (Length of Sequence = 478 Nucleotides)

GGTTTCACCA TGTGGCCAG GTTGGTCTCA AACTCCTGAC CTCAGGTGAT CCACCTCAGC CTCCTAAAGT GCTGGGATTA
AAGGCGTGAG CACNCACTT CACACCTGGC CCTCAACCAT CTCTTTCACC TTCTGTCTAT GACAGTTTAC TAGAATTTTT
TTCCCTTGAG ACTGAATGTT AAGTCAAAAA CAATAAAAAA TTGCTAATCA TTACTATGAC TCCAGAGCTA CTGTCTTCTT
TAAATATCC TGAANTTATA AAATATAAAG CCAAGCAAT GAATTTCTAA TGGTGAATT GTAGACACTG TGGGCCCCCT
GGCTGTGTTA TTTTCAGATG GGGCAAGGGG ATATTCCTAA CCTATTTTAA AAATCATGCC AGCCTAGATA ACTATGTGAA
AAATATATGG GTGTCTTAC AAAACTATTA CCTAGCACCC CTTTGGCAGT TTTACATTAA AAATCCCTTT ATTAGGTT

SEQ ID NO:1750: (Length of Sequence = 439 Nucleotides)

GACATTTTAT TTCCAGGTIG GCACTGTAT AAGGCACAGG GGCAAATGCC TTTGGGGTCC TGGAACTGGA AATGGAGACA
GGTGTGCTC AGGTGTCCCT GCCTCCACCA CCCCCTAAGT GCCTTGAGA CAGGACCAGT GGTGGTGGTT CCAGCCCAGG
GTCTGAAGG GTNCCACTGG CTCTAGGGGA GAGCCATGGG GACAGCTCCC CAGGCGGGAC CCTCTACTCT CCAGCTACCC
AGGAGGGACC CTNCTCTCT AGGGGGCGAG GCCAGCTCCA AAGTGCTTNG TGGCTCCCCA GGCTTAAGGG ACCAGNCTGC
CAGGGAGGGC TNGGNTCANA GAGAGAATAG TAAGATNAGA CGAGGAGAAG CACCCCACTA GCACGGCGAT TGGANAACAC
TNTCGGCGGT ACTCGTCTAG TGGGTAATTT GCCAANTTC

SEQ ID NO:1751: (Length of Sequence = 347 Nucleotides)

CTCTATTACT TATGATTACA CCATGGCAAT ATTCTTTTT CACCAGGAGC TTTGGACCTG CGCAGGTGTG GGCATGTAAT
CACCCGGAGC ATGTAGTCAT CTGTAGAAAT CACAGGCACA CTCATGTTTG CTCIGGAAGG AATCTGTTTT CCACAATGAC
TCCCCCAGC TAATGTACAC ACTGGCATT TGCATGCCCT CCTCACACAT GGGGCACCAG CCTGCTTCA GAACCACCCA
AACTCCACAG AGGCCCTTAA ATATGGGCTA GGGACAGATT TTTTAAAGA AAGAGTTAAG GAGCAGCTT ACAAGGGGAC
AAGGCAATT CCACAAGTCA GGCAGCA

SEQ ID NO:1752: (Length of Sequence = 297 Nucleotides)

GGATATTCTA GCCATACAGA TTCAATGGAA CAGAGAAGAG AAAGGAGGTT CCATGGGCAC CATAGTGAGC CATTCATTTG
CCCAGGGAAG NNGGTGGGGG CTAAGGGGCT AGGTTTGGTC CCATGGCTAC ATTAAATGCT TGGCATGACT CCAGGGCTTC
TCTAGTTAGT GGCTCCAGCA CAGTATGAGT TAGGTGAGTT AGGTGTAGGA GTTTGGGGAC AAGGAAAAAG GGAGGAGGGG
TCCTAGAGG CTNGGTGCC ATTACATAGA CTCAATTCT TCAATGCGCT GCTTTAG

SEQ ID NO:1753: (Length of Sequence = 402 Nucleotides)

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AAATTTAACT TCAACAAGCT GGTGATGCCC AACTACCCAT TCATCAACAT TCGGTCAAGT GGTGTGGTTC CTCAGAGTGC
 ACCACCAGTG CCAACAGCCT CTTCCCGGTT CCAATTCCCA CCTCTGGACA CCCATTCTCC AACCAATGAT GTGCAGCCGG
 GACGGTTCTC TGCTAGCTCC CTAAGTCTT CTGGCCAGGA GTCCAGTAAT GGTACTGATA GAAAGACTGA GCTTTCAGAG
 CTGGAGGATG GCTCAGCTGC TGAAGTGGCG CGGGGTGTGG ATCCCGTGTG CTCCAGGAAT GCCATTGGTG GAGGAGGGAT
 TGGCCATCAG AAACGCAAGC CTGACATAAT GCTTCTCTG TTTGCTAGGC CAGGGATGTA CCCTGACCCC ACAGTCTTTC
 GT

SEQ ID NO:1754: (Length of Sequence = 397 Nucleotides)

CAGTGGCATC TATGGCTCTA AAATGGAAAG GAGGAGTCTT GGATTGAGC TACTGACTTA CTCTGTGAAT TTACACATAA
 CTTCTTTTGA GCCACAGATT TAGCATTCTA CCAGTCACCT GATATTTCTG AGCAGCCACA ATATTTTAAA ACTATATTTA
 AATCTGAATT TGGATTAGC AGAATTTTAT TTTTCCATT TCTATTTTCT ATGGTCACTA AATTGAAATT ACAACCATG
 TAAATTTGA TATCATTAAT TATGTAGGAC TTTATCCAGT TTCAAAGTAA AGATGTCTCT AATGTAATTA ATTGTAATTT
 TCACTGATGA GACTGAAATA CAATCAGTCT GTATTGTGTG GTGCGTATGT ATCAGTGGTA AGAGGCTATG ATTAGAC

SEQ ID NO:1755: (Length of Sequence = 353 Nucleotides)

GAATTACTCT GTTGTTCACC TTTTGCTTTT TGCAGTGTCT GTCCTCTTAT CTGTATTTTG AGCTTAGTGC TAGGACTGAG
 AGGCTGCACC ATAGGGAATG TATGGGAGAT GGTGAGGGGT GCCAGTACG GGTGCGTGA GGAGAGGCCT GGGCTCTCT
 ACTGGATCTA CACTCTGTCC CAGGTTTITA GATCCCACTG AGCCAGCTG ACTGAAAACA AGGACAGTCA GGGTGAACT
 TCTTTTGCCA GAAGTGTGGC CTGAGTTGAA TTTCTGGGAG GATGACGCAG ATGTCTGCTG CAGAGCTGGG CTGAGAGTTC
 TCAATCTAG CTCTGACTTA GGTCAAGGGG CCT

SEQ ID NO:1756: (Length of Sequence = 184 Nucleotides)

TGGGCTCGGA GCATCGAGCT GGACATGCGC ACCATTGCCA CTGCACTGGA ATATGTCTAC AAAGGGCAGC TGCAGTCTGC
 CCCTTCTAG CCCCTGTTC CTCCCCAAC CCTATCCCTC CTACCTCACC CGCAGGGGNA AGGAGGGAGG CTGACAAGCT
 TTGAATAAAA CACAAGCCTC CGTT

SEQ ID NO:1757: (Length of Sequence = 425 Nucleotides)

ATTACAGGCG TGANCAACAC ACCTGAGCTA ACTTCTGGC TTTTCAATCA AACCATCTTT GTCATTCTCT GTCCCCACCT
 GAAGTCAGAA AGCCTGAAGA GAAGACGGCT CTATTGCCNC AGCTGGAGTG TGGTGGCACA ATNTCAGCTC ACTGCAACCT
 CTGCTCTCTG GGTTCAGGCG ATTCTCTGT CTCACTCTCC TGAGTAGCTG GGATTACAGG TATGCACCAC CACGCCCTGC
 TACTTTTTCG TATTTTGTAGT AGTAGAGATG GGGTTTCACC ATGTTGGCCA CGCTGGTCTC TATCTCTGA CCTCGTGATC
 CACCTGCCTC AGCCTCCCAA AGCGCTAGGA TTACAGGCGT GTAAGCCACC ATGCCCCGCC AATTTTGCCA GTTTTATTG
 GCCTATTCTT TATTGAGATC TAGGG

SEQ ID NO:1758: (Length of Sequence = 407 Nucleotides)

AGGAAGGCAT AAGCTAAGCA TCCTTCTAAC CAGTTCCCAA AGTCCCATCT GCCTCCATGT ACCAGCTGAT CGCAGAGCTG
 GACTGGGGCA GGCTGGGCTT CCAGGAAATT CCTGAAGTTC TGAAACAGCT TCCCCTCTAG AGAAGCCAC CCAATGTGTT
 TTTTGTGAC AGGAAGAAAG GAGGGAAGAG CTGATGTGGT GTGGCTGCC CATATCATAC AACCCACCA GGAGCAGGGC
 AGTTCCCAAG GTGGGTGCCC GTAGATCTGG GAGGCCAGGC TGGCATGATT CCTGTGAAGA ACTGTGCTG TTTCTCAGG
 GAGAGGCCTG AGCCCTCTCA GAAGCAGGGA CAGCCACAAC TGAAGAGCAC GCCAAGCTGA GGCAGCAGCA GCAGCTGGGG
 GAGCAGT

391

SEQ ID NO:1759: (Length of Sequence = 386 Nucleotides)

ATATATTTTT TTGTTAAAT TTCITTTGAT TTTTTCCTG CAAGACTTGG TGTGGCGGC ACTGTTGTAG TTAACTTCA
ATCCCAAATT CCATGAAATA GAAATCAGAA GTAAAGGTG AGAGGGGAGG AAGGAGGGAG GCAAGCCAAG GAATAAACAA
GAGTTTGA CT AGAAAAAAG AAGAGGGTAT GTGTGGTGGG CATTCCTGGG CAAGGCCATT CCTTGAGGGA GGGGGTTGGC
AGGCAGCTTG CCTCTGCCCTC ATGCAGGGGA GGGAGGAAAG ATCCCCTGGG GACCCCTGCAG TCCCCTCTTC CTAGGGCTTC
CTGCTCCAG GGGAAAACT AATACCAGAG AGGGATCAGC CACAACCTNA AACAGGGCTC TTCACC

SEQ ID NO:1760: (Length of Sequence = 395 Nucleotides)

CTTCATGCCT CTGGCCGGGT CCAAGCTGGC CAAGAAGAGG GAGGAGGCCA TTGAGAAGGC CAAGCGGAG GCTGAGCAGA
AAGCCCGAGA GGAGCGAGAG GNGAGAAGGA GAAGGAGAAG GAGCGGGAGG AGAGCAAGAG CGAGAGCTG AGGCAGAGCG
GGCGGCTAAG GCGTCCAGCT CAGCGCATGA AGGTGCGCTC ANTGACCCAC AGCTCAGTGG TCGTGGCCAC ATGCGGCCAT
CCTTCGAGCC ACCACCAACC ACCATTGCTG CTGTGCCCC CTACATGGG CCGACACAC CTGCCCTTCG GACTCTGAGC
GAGTACGCCC GGCCCCACGT CATGTGCCCC ACCAACCGNA ACCAACCTT CTACATGCCC TTAACCCAG GACCC

SEQ ID NO:1761: (Length of Sequence = 378 Nucleotides)

CCCACCAGAG CATTTCAACA AGGCTTACCA CACAGGCCCC AGTACCTTTC TACTCTACAA TGAGGCTCAG AAGCTCAGTG
TACCACCCCA TCCCAGGAG GCCACTTAG ACCAGAAATC CCAAGTCCAT TAGCTACAGG CTGATATTCA GGGACATCGG
TGTAACAAA GAAGTGGGAT ATGAACTATA TCCCTGATTT TTTTTCTTT TTTTTTTTT TTTTGTAGAC TAAGTCTCAC
TCTTGTCCTC CAGGCTGGAG TGCAATGGCG CGATCTTGGC TCACTGCAAC CTCGACTCT CAGGTTCAAG AGATTCTCTT
GCCTCAGCCT CCTAACTGGG GTAACAGACA CCGCTACCA TGCCCGGCTC ATTTTTTT

SEQ ID NO:1762: (Length of Sequence = 351 Nucleotides)

TGATAAATAA AGAAGTTCAA AAAAATCTTT TAATAGAAGC TATAAAATAG CAGATAAGCT AAGTCATTCT CATAAACAC
CATTTGICAT TTGAATGCGT GCATTGTGGC CTGTTACTTT TAACTAGTCT CACTAATTTA TAGTTATATA TGATGTAGAT
CTAGATTGTG ATGTACACTA AGTGGGTTGA TCCYGAGATC AAGCTATGAT TGCTGCTTGC GTAAAGTGT CCYTTTGGGA
AATAAATAAT CTTTCATATC TGTAACCTTT GGTATAATTG GTATTATTG CAATGTATTG TTGTGGTTGT CAACTCAAGA
TTGTATCTC ATCTGGGGAC ATTATGAATC T

SEQ ID NO:1763: (Length of Sequence = 157 Nucleotides)

GTGTWTACTT AGTGTGTAAA GTGAACAAGA AAAGCAGCAT AATAAAGGAG CTGTGTTTT ATCAGAGGAG CCTTCCTTCT
GAGTTTTTAC ATAAGTTGAT GCCTTCACTG CAACTTTGAA TACAGTGCTT TGAATGTGA AACACTTGAA TAAAATG

SEQ ID NO:1764: (Length of Sequence = 321 Nucleotides)

GCTCCTCTGC CTCAACTCC TCCAGCTTCT NACCCTTGG CAACGCACCA CTGCCAGTTC CTCTGGGGCT CTCAGAAATCA
CTGGAGTACT TCTGCAGCTC TCTTGGATGA CCTAGGGGTG CAGCAACAGG CACAAAGCTC TCCTCCAGGT CCTGGATTTC
TTTATTTCTT CCCTTCTTC TCCTTGGTGT ATTINTCCTG TGAGNGTCTG ACTCTATCAC TTTCAAAGCT GTGCTGTGGA
TTTGGGTCTT TAGATGAGGC TTCATGCCCT GGNATAAGCA AAGGAGCCTG ATACAGAGTT GCCTTGACAG GAGCAGCTTT
T

SEQ ID NO:1765: (Length of Sequence = 420 Nucleotides)

TCACGCTGT NATCCTAGCA CTTTGGGAGG CCGAGGTAGG CAGATCACCT GAGGTTGGGA GTTGGGGACC AGCCTGCCCA
GCGCGGAGAA AACCGTCTC TACAAAAAAT TTTAAACTT AGCCAGGCGT GGTGGCGCAT GCTGCAGTTC CAGCTACTCG

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GGAGGCCAAG GCTGCAGTGG GCTGTGATTG TNCCTACTGCA CTCCAGCCCA AGTGACAGAG CAAGACTCTA TCTCAAAAAT
 CAAACAACAA CAACAACAAA ACACCACATA CACACACACA ATGAGGGTAA ACAAATAAG TATGTGTGGG TCACACTTCA
 GCAGGGGTG CTGGTTTGGC AGAGGAAAGT GCAATTATTT TATCTATGGG TGTTTATTGT CTCCACTCTA AACTGTCAGT
 TACAGATGGC AAGACTGTTT

SEQ ID NO:1766: (Length of Sequence = 373 Nucleotides)

GTAAATACT AAGACACTAA ATGCGTATTT TAAATTTGCC CATTAAGTTT TGGGCTGCGT AAGAAATTAG TAAAAAATAT
 TTCCAAATAA CATGCAGAAG TTGTTTTTAA ACTTAAATC TCATATTTTA GCTACACCCA CAGCGATGCT ATAGAGAGGA
 GCTGGATTTC GTGTATCTG AATGGCTCAG ATTATGTTCC TTCCAAAAA GTTATTTTAT GTACGATCAT TTTTATATG
 ANGCAATGA AAAATCACC AGAATCTACC ACGTATTTAC CACATAGACA AATGTCCATC TTTAGATCTG TCATTCAACA
 CCATGTTATT CTTTTATGC AACAGAATGC AGTGTGTGA GAAGTACATC AAG

SEQ ID NO:1767: (Length of Sequence = 330 Nucleotides)

GGTGACAGTG GCGGCANAGC AGCAGCATGG TGGCAGCCAC CAGTGGGCGT GGGGCCCCCG GGGGAGAGGA TGCCCCAGAG
 GTGCATGAGC AGACCTCGTA ACCGTCTCTC GAGCGGCTCT GGTCTATGTTG TCCTGGAGGG GCGCGGGGCC CCTCTGCCCC
 GTCCACGCCC GCAGCCACAG ATCCATCGGC CTGTGAGTCT CCACACACCA GCCAGTCCCG GCGCGTGGAC TGTGGGTACC
 CGGGTGCCAC CTCCAGCTCG CCATCCAGCA CTTTCCAGTA CTCTGGCCA CGGAAGAAGT AGGAGGCACC GINGGACCAG
 CGCATGGCGT

SEQ ID NO:1768: (Length of Sequence = 361 Nucleotides)

AACTGGAAAA CCAAGACTGG TAGACTCTCT TTTCTTTCAG ACAATAGGCA GGAGCCAGGC GGAGTCCAGG GATTCTTGA
 ACACCTATCT TTTCTTCGGA GGACACTAAG TTCTATTGTA AGACAAAGTT CAATATGGCA ACAGGACTGA TGGGACACGA
 AGGAGTCGCT ACCGTGATTT GGTGACAGTT CTTCAAACG ACAGTNTCTC AAGGAAAGGT GGACCTAGGA ACTCCTGAAC
 TTTTGGGTG CCTTAAGTGA GAAATCAGCA TGGCTCAGGC AAGTCTCTG GCTTGTGAAG GCCTAGCAGG TGTGAGTTG
 GTTCCCACTG CAGCCAGCAA GAAGATGATG CTGAGCCAGA T

SEQ ID NO:1769: (Length of Sequence = 389 Nucleotides)

CAACTACCGC AGCGCCAACT TCAGAGAGCA CATCCAGCGC CGGCACCGGT TTTCTTATGA CACTTTGTG GATTATGATG
 TTGATGAAGA GGACATGATG AATCAGGTGT TGCAGCGCTC CATCATCGAC CAGTGAGCAG AGTCCGTGCT TGCTATCTGT
 CTCATGTTAC AGAGCTTCCA TTACATATTA AACGTGAAAT CTATGACTCC TGTACCTTAC CTGTTCAACA GACCTGAAAA
 TGAGCCATGG CATTGGGACA GGGTCACTTC TGACAGGGGA AGTGGGTCCC CAGTTCAGCC CTTCTCTTCC CTTTGGGCTC
 TTGCCAAAGN TGTCTTCCCC TACTGTTAAN CTTGTTTGTG ACACGGTGA GTTCGTATTG GGTCTCTGG

SEQ ID NO:1770: (Length of Sequence = 394 Nucleotides)

GCAGTTTAGA GGAAGCTCCT TCTGGGCAAG GTCAGGCGGT CCTCCTTCCC TCTCTCTTC CCTTTGTCC CAGCCTCAAC
 TGACTCTGGC TGTGGGAGGT GTGGAGGGTC CTTAGGCTTC CCTCCCCAAC CTGGCTTCCA CCAACACCCC TAACAGGAGG
 CCCGTGGAAG GCTCAGCCTC TCCTCCGCAT CCTCTCTCT TCCTGCCTAT CGGAGGGAGC CAGGGTCCCC TAGGCTGACC
 CTGAATCCTC TTCTCCCTT CATGGGAGGG GGCAGGAAT CCAGAGGAGG ATGAAGCCAG CGGGACCACA TGGCTTNGTG
 GCTTNGACAA ACAAGCTCAG GGAGGAAATG AGGAGGCGNC GGCTTCAGAG GATTGCAACC CTGTTGGGCA CAGA

SEQ ID NO:1771: (Length of Sequence = 373 Nucleotides)

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CAGAAAAGGC AAAGTTTATT CCAGTGTGA CAGAGAGAGG GTGAGCCTTG CACAGCAATT CTAAAAACAT GTATCTCTCT
TCACCTAAGA GGTAAGANCC GGCTGTAAGT CATGGGGTCA CTAAACCGGC CGCAGTTACA GTAAGCAGAA GAGGTCACGG
CTCAGGCCTT CTCAGACTTT CCTGGGACA CACGGCTCTC TGGGGGGGCC CGGCGAAACC ACTCGGACCA GGAGCCATCG
TACACGGCCA CATCAGGCTT NCCGAGAGG TAGGCAGCCA AGGNCAGTG GCAGGCGGTG ACTCCCTTGC GGCAGTGGC
AATGAGAGGC TTCGAGAGAT CCACCTTCTT GGGCTTGAAC AGAGCACGGA GCT

SEQ ID NO:1772: (Length of Sequence = 281 Nucleotides)

AAAGTGCTGG GACTATAGGC GTGAGCACTT GCATCCGGCC TAGGTGGGGT TTGTGCCCCG TTCTGCAGGA GGGAGACTGA
GGCTCGGAGG TTCAGGGCCT GCTTGGCTGT ACCCAGCCCC AGTATGTGCC TTGGCCACAC TAGTCAGATC CTCCCOCTCC
CACTCCTGCC ACCCTGCTCC TGCCCTGTCC CATAATCCAG GTTGAATGGG GGTGGGGATT TTNGGGAGCA AGGAGGGCTC
AAAGAGATGG AGATAGGCT GTTGTGAGGC CAAAGTGCA A

SEQ ID NO:1773: (Length of Sequence = 401 Nucleotides)

CTCTCTGCCA TGCTAACCAA CGTAGAAGAG AATAAGATAA AGCAATGAAA AGCAGAGTGG CACTCTGATA TATAAGATT
TCTAAGAAAT ATAGAGTGAA TTTTGCCCAA AGGCCCTCAC TGAACATAAT CCTGAACCAA AAGAGTATTT CTTAATCCAA
AACCTTACAG TATTAGACCT ACGAATTCTG ATGATGCCCTG ATCAGATGCT AGTTGTTCTC GACAATCCAT GCAGTTTTCC
AGTATGAAGG AAAGTAACAA ATATACCATG GTTATTCTTA TTTCTTTCTG AAAAATATCT AGGATATTTT ATAGTGTAT
GTGGTAAAT ATTCAATTGA CANTCACAAT GAAGTATAAT CAGAAGTATT AGCAATTTTA CTTTGTATTAT CTTGTTAATC
C

SEQ ID NO:1774: (Length of Sequence = 230 Nucleotides)

TCGTGTA AAAAAGTA AAAA ATGTACACA TAGGNAATAA ATGTAAAAAG CTATACTTTG CCAAATAAA GTTTCAGCTG
AAGGTAATGC TAGTTATAAA TTAAATACAA TTCTATTAAG NNCTTGCAAA AGTCAAAGGA AGACGGNAAA CTCCCTCTTT
TGGCAATTCA AAGGCAAGA CCGTTTCATT TATTCTTAAT TTINCITTTAT ACAATCATT TCCCCACAG

SEQ ID NO:1775: (Length of Sequence = 359 Nucleotides)

ATTTCAGGACA TAGGCATGGG CAAGGACTTC ATGACTAAAA CACCAAAAGC AATGGCAACA AAAGCCGAAA TTGACAAATG
GGATCTAATT CAACTAAAGA GCTTCTGCAC ATTAAAAGAA ATTACCATCA GAGTGAACAG GCAAACTACA GAAAATCTAC
CCATCTGACA AAGGGCTAAT ATCCAGAATG CTACCTAATT TTTAAAGACT TTTTCGGCA TCTTGAAAAA AACCACCAIT
ATTTGACATA GGTAAACTG AAAAAACAAA CTATTCATAA TTACAATTGG TGACACATTA TGATAGTAGCT AGGTTTCATCA
CATAAATTAC ATGNTACCCC AGTTCAAGTT AAATTCAG

SEQ ID NO:1776: (Length of Sequence = 375 Nucleotides)

GGCAGAGGCT GCAGTGAGTC CAGATGGTNC CACTNCACTC CAGCCTGAGT GACAAAGTGA CACTCCATCT CAAAACCCCA
ACTCCCCCA AAATTTTTAA TTTGGTTTGC ATTCTTTGA TTATGTTTGN GGTGATTGA GACTTGAGGC TGGCACTGGA
GCAGGCGTTC CCACCTGTCC CGTGAGGCAA AGGTGCTGGG GAGTGACCAA GTGCATCAGG GGGTGAGAT GCCCTATTCT
GGCTCTTTCA CGCTCAGCCA TCTTAGCATA NGTGAATATA CCATGAGCTG TTTCTCAGCT TGTTTTATTT TCCTGGNGAG
ATAGATGTCA CTGGAATGNN CTTTNTCCAA GTGAAAGGCC ATCTTGTGCT ATGAC

SEQ ID NO:1777: (Length of Sequence = 387 Nucleotides)

GATAAGGGAG GAAAGGCAGG AGGAGATGAG GCCAGCCCCA CTGATGACAC CTTGGGCCAG GCCTCACAGC TGCAGGCATC
AGCCGGAAAC TCCAGGCTGC TCATGGTCAC TGGCGGTGCT GAACTGTCTC TCCACTTTNT TTTGGTCCTT GATCTTGAGT

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CCAATGTCCA CTCTCTTCTC AAAGAAGTTC ACCAGCACGG ACTCCGTCAG GATGGAGGCC AGGTTCTGCT CAAAGGAGAT
GCACCACTCG GTGTGACCGG TGCCGCCGAT GCGCGCTGTG GGGCTGCAGG CCTNCCCGCC CACCAGCACC GTGTGCTCTG
CAAGGTCTTC ACATTGCAGG GAGCCCGTNC TGACCACCGA GTAGGAGGAC ATGGACATGT CGTCTTT

SEQ ID NO:1778: (Length of Sequence = 297 Nucleotides)

CCCCCAACT AGAAGAATAC AATTAAAAA AGAGGCAGTA CACATGGTTA ATAAACAGAT GAAAAAATTA AAATTCACCT
GTACTATAAG ACAGGCAGAT TAAATTATTT TTACCTATCA AATTAACCAG AACAAAGGCA TGCACTTTAG TGAGGATGAG
GAACATACAG ATTCACCTGGT GAAAGTAAAT GTACACACAA CCTTTCAGT TGATAGTTTG GCAGAAGTTG CTAAAAACAT
TTAAAGCTTT CATACTTTTG ATAAGGCTTT TTATTTTAGA AAACATATAA ATAAAAA

SEQ ID NO:1779: (Length of Sequence = 353 Nucleotides)

CAGAAGTAAA AGATTTTWTAT TGTCTATAG ACACTTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAWT
GATCAGTAAA AACATGCAAA AGTGAGAAGG AAAGGGAAAA AGGTGCATT CCGTAAGCTG AGGGGGATGG AATTTAGAAA
CAGAGGAGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CCAAGCTTNG
NGGAAAGCAA TGAGCTCCAC CCTAYTCAGC AGA

SEQ ID NO:1780: (Length of Sequence = 428 Nucleotides)

CGGCTTCCCC GGAGCAGCCG ACAGGGCCAC AGGAGAATGG TATGCTGCTC GGCATGGAGT GAAGACCACC CCGTGTGCAA
TCTGTTCAAC TGTTGGTTTG ACCGGCAAGC CATTGGTTGG AACATCAACA TCCCTGCATT GCTACAAGAA AAATAAGGAC
ACCGGCAGCC CTTAGTTTCA CTGTTTGCCA GCACAGACCT TTGATGGGTG CAGGCTTTTC TGCGTATTAA TCAGCCATTT
TTGTGAGAGT TTGACCCCTGG AAAGGGTGCT TTGTATATGT TCTTTTCA TAATGCCCAG CTGTCATGAA ATGTACAGAG
AAATGTGTGG TCGTATTTTT TACTTTTGTC TTGTATATGT ATGGATAATT NGGGTCCCTT GGGCAGTAGA GGCAAAGCTC
ACCTCCCATG TAGCACATGA AATGCTT

SEQ ID NO:1781: (Length of Sequence = 459 Nucleotides)

ACCTCAGATT GTGAAGGGCT CTGTAGGCTA TGTTAAGGAC ACTAGAAATC TATTGAAAGG TTTTAAGCAG AGAATTGACT
TGCTCATATT TTTCCTTCAA AAAGCTCAAT AGCTACAAA CCGTCAATAG ATGGTAGCTT TGTGGGGCTG GGGTGAATGC
AATGATATTG CAAAACAAGA TATAGGGAGA CAAGAACTTT TAATAACCTA AACCAGTGGT TCTCAAACIT TCCATGCATC
AGAATCACCT GGATGACTTG CGAAAACACA AATAATCAGA CTTAATCCCT ACATTTCTG ATTTAGCAGG TATAGAATGA
GGTTTAAGAA TTTCTAACAA GTTCCAGAT GCGTAAGGT GTCTCTCAGG GTTTTACTT GAGCAACTGG GTGGATCCNG
TGGATCTTAT GTCCCTNCGA GTAAGGGGTC AGGTACAGCA TTCTCCGGTC AGATGTGTT

SEQ ID NO:1781: (Length of Sequence = 420 Nucleotides)

GAAAGCACAG GAGCCTGCTT CCAAAGAGGG ACTGTCCCGT AATTNAGAGA TGCTCCAAGG CTGACCATCC TCCTTCTCCT
GCTGCACACC CAGCAGCCAT CTATGGCTGG ATTTGGAGAA TTTCTGGTCA AACCGGTGAG TATGAGGAGA GCAGGGCAGT
TGGGGAGAGA GGTCCAGGCC CAATTCTGCC CAGAGAAGCT CCCAAAGAG AGGGAGTGT CCTGATGAAG AGCCCATGAA
AGGGGTGAGA CCCAGGAGGC TGTGGAGATT GCTGCGGGCT CCTCTGGTCA GTAAGGAACC CTGACAAGAT CCCTAGGATG
GGGTCCCTT AGTCTCACTG AAGTTCTTGT AACTINGGAT TGGGGCCAGG TCANCTCCT CTGATACCCG AGCTACAMAT
CTGGCTTCCC AMTCTAGAG

SEQ ID NO:1783: (Length of Sequence = 427 Nucleotides)

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AGAGCTTAGC ATGCTGTTGG TTCATGTTTT TATGTGTTTA TTTCACATTG ACTTTTGCCG TGAGCTTTGA GGGAGACAAC
 ACCATCACAT ATGTGTAAAT TGTAAAAGAA TTGGGAGAGA ATAGCTTTGG GAGATCATT TCTTACTGGC CATGATGAAG
 AAAGCTGTAT CGTAGGAAAA TTACTAGGTA ATTTTACTCA CTTGATAAAG TTAATTTGCA AGGTATCAIT CGATTGGTAG
 AGTTACCAAA ATGAGAGTTA AAGAAACAGA AATATGGTTT CAGTTTATGG TGCATTCTTA TCTTTTTCAC TGAGTCTATT
 TCTGTCTGGT TGCTTCACIT AGTACTCCAA CCAGACAAGA GGAAGACAAC TATGCTAGTG TTTTAGGAAA TGGGACAGAA
 TGGGGTGATT TAAGTAGGAG CCNGGGT

SEQ ID NO:1784: (Length of Sequence = 428 Nucleotides)

ATGGGATACT AATGCAAGCA TTCAGTGAAA AAAGTAGATT ACCAACTAT ACGATCCTCA TTTATTTTAA AAAGTGATAT
 CACCCAGAAA AAAATAAGAA AGATAAAGA TGTGGTAAA ATAATAAAG AATAAAAATA TAGGGGAAAA GGTAGCCAAG
 GGATAGATAT TGATATTCAT TTCTTTTTTA CAACTTTTAT AAGTGTGAAT TTGTGTGCAA CAGATTGCAT ATATTTGANG
 TATATAACIT GACTAATTTT GACAAATATA TACACCCATG AAAGTACCAG TTATAATTTT AACATTTTC ATGGCCCTCC
 AAAGTTTCCT TGTCCTCTT TGCAATACAC GCAACACAC ACACCCACA CACAGTATGT AGGGCAACCA TTGATCTGCC
 TTCGTTTACA ATAGGGTAGG TTTCATC

SEQ ID NO:1785: (Length of Sequence = 414 Nucleotides)

GTAACAGAT TACATTTGAA CACCTAAATA AGTATTGTG TCATAATCAT TACATGCTTG TTTATGATT ACAAAGATT
 GGTAGAGAAA AGTACAGTCC TTAAGGCATA TATATGCCAA TGCATTAAAC TACTCAGCTT TTGTGCCAGC TCAGGTGTTT
 ATAGGAACAG GAATGTGGAA TACCAGCTTT TTAATTTAAT TATACTTTTA TGCTGAATTT TTCTTCCAGT TAAACCTTTA
 ATTACACTAG TATGTAAAGT AGTTACTGAG AAAAATAAGT TTTTGATTTC CCTCTGTG GATCTGTAAC ATTTTAAAT
 GGAGCTATTT AACACATGAC ATGCTAATGT TACTTAATGG GTCTCTGCAT TTTAATTTTA NGAAACACAA ACCTGGGTCA
 CAAAACATCT TCAG

SEQ ID NO:1786: (Length of Sequence = 397 Nucleotides)

GTTATTCCAA CCAAAATTTT CTAAGATTGA AATGCAGAAA CTTACAGAAT TGAGTAAAA GACAAAAACG TAAATACTAA
 ATATTGAAAA GATGCAAGIN CTCCCCAAT AACTCATAG ATTAAATAAA ATTCAAATTT AAAGGCAATT AATTAGGGAT
 GAGGCAAGAA TCTGGGAAGA AAATTAATCT GAAGTTTGTG TGGAAAAATC AATGGGTGAA ACGAAAATAT TTTAGGATAA
 GATTAATGAG AAGTAAATTT ATTTCAATTA TAAANGTAAA ATGATAAAAT AGTTAGACCT ATATGGTACT GATGCCAGGN
 ATGTTATACA AAGCTACGTC AAGGCTTGAG GATAATTTTN TTGAAGATAT TCGTGGGTAT CTCATTGGCT ATAAAG

SEQ ID NO:1787: (Length of Sequence = 408 Nucleotides)

TCCCACAATT GACAATATAT ATGCATGRT TTAAACCAA TCCAGAAAGC TTAAACAATA GAGCTGCATA ATAGTATTTA
 TTAAAGAATC ACAACTGTAA ACATGAGAAT AACTTAAGN TTCTAGTTTA GTTTTGTGTA ATGCAAAAT ATATTTTINC
 TGCTGATATA TTAGAATAAT TTTTAAATGT CATCTTGAAA TAGAAATATG TATTTTAAGC ACTCACGCAA AGGTAAATGC
 ACACGTTTFA AATGTGTGTG TTGCTAATTT TTTCATAAG ANTGTAAAC ATTGAAGTGA ACAAATTACC TATAATGGAT
 TTGGGTTAAT GACTTATGAG CAAAGCTGGT TTGGCCAGAC AGTATACCCA ANCTTTTATA TAATATCCAG ANGGCTATCA
 CACTTGIG

SEQ ID NO:1788: (Length of Sequence = 391 Nucleotides)

CAACTTGGA CAAACTTTTA TTTTGAATGC TGGTCTGATC AGTCCACGGC CAGGGGTAGG TGTAACTAG AAACAGCTGG
 AAGGAGGGAA GGAGAGGGGA CCAGCAGTCC GCAAGCAGGA GGAAGGAAA GGGTTGGGGA CAGGAGGAGG CAAGGCTGAG
 GAAGGACCCA GCCAGCTGGG TGCTTGCCCC GGCTAGAGAA CGAACCACCC CCACCCACCA GGCTACCCTC CATCTGTGGC

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TTCAGTGCAG AAGTCAGTCC AGGTGGGTTC AGGCCCATGC CACCTTCTCT GGCCTGCACA GTCCCACCCC AGGCAAGGGG
TCTTTCCAG AAAGGCTAAA TGCTCTGTCC TAANCCTNGG AAGTGTCCCT TTCAACTAAA CCCCTGGCCT T

SEQ ID NO:1789: (Length of Sequence = 312 Nucleotides)

CAGGGTGAAG TGAGCCTGTG TGGGAAATGA GTCTAGTGTG AGGAGGCCCTG GCTGCTATAA TGATATTTAT CTCACAGTTT
ATATTTCAAT CATTTATATT ATTTTTTTAA AAGGTTTCTT TATCAGCTAC TAAACATCTC AGCAATTTGG TGTGCATAGC
TCTAGATTAA GCAACAAAGA ATTGTACTGA TAACAAACCA CAGGGGAAAT GGTGGTTAGT AAGAGTCAGC CTTATAAAAT
TTACATCCAC ACTGTTTCAC AGCAAGATTG CTCTCTCCAA AACGTAGCCA TCAAAAGCAG CAAACAAACC CT

SEQ ID NO:1790: (Length of Sequence = 281 Nucleotides)

TGTTTCCYTC ATTAGCTGTA GACTATCCCC TCTCCTCCCA CCACAWTGT TCIWIGATGA KITACAAACA GAAAGGAAAT
CACATTTTCA TACTAAAAAC AAAATGWTCA GAGCCTTGAT TTYTCCACTA GAWACTACAC GTACAGTTAA GAGTCCACAT
GCAACACCTT AAWTCACAGA CTGAGACCTC ACATTTYGAC CTGGAGNTTC CTCCCCTTCC CCAGCCTTGG GCTAGCTTTG
GCCTAGGCTC AKGTAATACT GACACCCACA GGCCTGTCTC T

SEQ ID NO:1791: (Length of Sequence = 261 Nucleotides)

AGGCAAAGCA GAAAGGTGTG TTTGCCAGAC CAGCATGGGC AGCTCAGAGG GAGCAAAGCA TCCACCAGAA GAGGCTCTCC
ATTTTTTTGT AGGGCCTGAC AGTTGAGATT TGAGGCTGAG TTAACAWTGG GACCACTGAA CTTTTTTCCA ATGGAAAAYT
CACGGCCAG TCCACAGGA ACTTTGCGSC ATACCAAACA ACAWTGAGGA AGGAAGGGCC GGGTGGCTCT ACCAAACAKT
TCAGGTCCAC TGGGTGAWTG A

SEQ ID NO:1792: (Length of Sequence = 324 Nucleotides)

CTCCATCTTT ATCGGCTGTA TAAACATCTC TGGTCTGTAC ATACATTTCA TACATCGTAG GGTGGGAAGC GAGGGCCAAA
GGGAGGCCCA GCAGCACAAC AGCTCACCCG CTTTCCCTAC AGCCCTACCC GCTCTGTGCA AACCAAGGCC AACAGCTCCT
GCTGCCTCTT CTTCCCTGGA AAAGTCACTG TTATGGGGAG GGGGCCAGGG GTTGAAGGAT TAGAAGGAGA TAGAGGGCTT
GGTGGGGAGG CCACATNTAA GTCTAGATT CAACACTGA AGCGAAACAG GCAACTGGCA CAAGCAGCAA GCTTAGGCAT
GGGC

SEQ ID NO:1793: (Length of Sequence = 386 Nucleotides)

ACTCTTGGGG ACCCAAAGAT GTCAGGTCCC CATACTCTGA GGAATCAGGA CACAGCCCAG TGCCTGACAC CACAGAGTGA
GGCAGCCCTT CGGGTGAGGG CTTGGGCCTC GAGGGATGGC AGCCACCACT GCCTAGGCAA ACGCACCTGG GGCTGAACTT
GGCGCCCGC ACTTTNAGGA CGCCAGCACC AGTGGGCACT CGGAAGTGCC AGTTCTGGCC CAAATTTGGT GACCTGGGTC
AGAAGGACCT TTCAGAATGA NTTGTTCCCG TCAGCAGATA CCGTCAAGAC ACGGCTGGCT CTGAGAGGGG CTGGGTGCCC
GTTTTCCTG TATCTCCTG GGGGCCAGCA CGTCTCAGAG GGTGTCCCTG TGGGTCCCCG GGTCA

SEQ ID NO:1794: (Length of Sequence = 308 Nucleotides)

GGATGCTCTT TAAACATGC AAATGGGGC GGGCACAGTG GCTCATGCCT GTAATCCCAG CACTTTGGGA GGCCGAAGTG
GGTGGGTAC CTGAGGTCAG GAGTTCAAGA CCAGCCTGGC CAGCATGGTG AAACCTCATC TCTGCTGAAA ATACAAAAAT
TGGCCAGGCG TGGTGGCATG TGCTGTAAAT TCCAGCTACT CGGGAGGTTG AGGCGGGAGA GTTGTTTGAA CCCGGGAGGT
GGAGGTTGCA GTGAGCCGAG ATTGCACCAT TGCACCCAG CCTGGGGTGA CAGAGCGAGA CTCTGTCT

SEQ ID NO:1795: (Length of Sequence = 418 Nucleotides)

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GAAACGCTAA GGTTTTGACA GCGTTACAGT GAATTCTCCG GCTGTAGAGA TTGGAGGAAG TOGGGAGAAA TTCGTCTCTA
 AGTTGTAAAG TGGAACAGCA TTCATTTTCT TACTGCCAAT GGAGGTTTTT CATGAATTTA CTAACCTCAGT AAAAAGATTC
 GGCCTTTTTT TTTTAATCTT AAAGGATCAC GCTTTAAACC TCTGTAACAA AGTAATTATT TGTACCACTC TCTACCCAC
 CCTCCAACAA AATAACCTAT CGGNTCTCAG AAAATAATAA CCTTTTGCTT GCCTTTGAAA TAGTTATCCT TTTAGTATG
 ACAGTGTTC AAAATCTTT TCTTAGACTT GTAGCAGAAC ATAGCTATGA TGATCTGAAT TTTTCTCTT CAGCTTGTTC
 TAAGACGAGG GGGACTCC

SEQ ID NO:1796: (Length of Sequence = 416 Nucleotides)

CITTATTACA TATGCAACCT TGCCATGCCT GCCAGTTAAC TCCCCTCCCG CCAATGTTAT CCTCATGATA TCAGCTCCCT
 CTTGGGGCCA CTGAGCTGCC CCCCTTTCCT TCTGGGCTGG AGTAGTGGTG CCCCTCAAGC AGGCAATGGG CAGGGGGAGA
 TCCACAATTA ATCGTGCAG TTCTCTTAAA AGTATTAAAC CTAAATAAG CACTCTTGGG GAGTTGCAAA GGATATTTCAG
 GATGGGATGC AGTGGGAGGC TACCCCTCAT CCAAGGTACA GGCTGGAATG AGCTACAGCT GGGTCTATCG TGGGCCCTCAG
 AAGGTGAAGA GGGACCTAT TCTGGGGCTT AGTGTGGGTG GGCATATCC TCCCCTAACT TGTCTGTGG GCGATGTCT
 TCACATCTAG GAGAGC

SEQ ID NO:1797: (Length of Sequence = 298 Nucleotides)

AGGAGGGAAA CCAGAATCAA ACTACTACTT CTAGATGAAC ACAGGCTCTT GAGAGTCCCC AAGAGAGGAG GCTGTGATC
 CAATCTGAC TCAGACTACC TACCTGGCTT CCTGGCCCTA GGAGGTAATA ATGATAGTNT CAGGGGGTCC ATGTAGCAAT
 CCAAGCAATT CCTGAGGTGA GAGCAAGCAA AGAGGATAGG ATGAAGGGAA GGCAGGCAAA GAATGTGCTC CTAGTAAGAA
 GCAACTCINT TCCACTCACT TCCTTTTGCT CTNTGGCAGG CAAGTCAACT GGGTTCTC

SEQ ID NO:1798: (Length of Sequence = 245 Nucleotides)

CTGGTCCATT TTTACAACAN ATACATCCAA AACACTATAT AATANNITTT TTTACAACAT TTCCAAATGA GAAGATTGCT
 TTNNCCCCA CTACTGCTAT TCACACACAG TACTTCCACG GCACAATACA TTAGGAGATC TAAAANTGCT CACCTGTATC
 TCTAGGCTGC TTAGGAAATG TGAAACTAG NAACATTAT AATGGCATT GCTCCTTTCA ATACAAGCA ACATTTTAGN
 AACCT

SEQ ID NO:1799: (Length of Sequence = 312 Nucleotides)

GAAATGTTAG GCTAGTTAGA AGGACACGGC AATAGCCTTG AGATTYTCAA CCAGGGTAGT GTATTAGAWG TAAAAGGAG
 AGGAAAGATT TGAGAGTTAT CTCAGAAACA GAACCATCTA ATTTTTTTGG ACTGATTGA CTGCTCTTC ACTCATTTT
 TTATTCATC AACAACTATT TTGAKTNT TTGGATGGT CAGACATTGC GCTAAGTGAA AAATAGGAAG GTAAGAAAAA
 GAAGACTCTG AAGATGAATT CCTCCCCAA AACTGAGCTA CTAGCTATTA CTCAGTGGG CTGAAGTGAC AC

SEQ ID NO:1800: (Length of Sequence = 309 Nucleotides)

GGCATGTGAC ACTAGGCCAC AAGCGATAAG CACAGGCACC TGACTTTTAA GTTTTGTITT GTTTGTGTT TCCCAAAGTG
 CTGATAACAA TAACAACAC AATAGGATTC CAACCAGNG CCTCAAGTGA CAGCCAGGNA GAGACCTGAA GGTGGGGCC
 ACCACAATGC CAAATCGTTT CTAAGGAAG CTGAAAAATG GGACTGTCTT TTGCCACTT CGTTGTGTTA AAAGGGGACA
 TTTGTCNAAA CTNCCAACC GAGTCTAGA AGTCTCTGAC AAGGAGGCAG CATCCAGCCT TGACCAGG

SEQ ID NO:1801: (Length of Sequence = 166 Nucleotides)

CAAAANTTAC TCTGCAAAAT TAATATATGA TTTACCTGCT GTINTCATAA GATTTCCAAA TAGACAAACT CGGTATGCTT
NNGGATTGCT TTACATTCTA AGTGGATTG GAGGTCAGG CAGGCGCCAA GGAGTINAGCC GAAGTTTCAT CANGCGGAGA
TGTTGG

SEQ ID NO:1802: (Length of Sequence = 281 Nucleotides)

GGTGGATGTC TTTGGGCGCA GGATGGAGCC CAGACCCAGT GGTACAGTG TGGAGCTCTC TCCTGTCCC CTGACTCTGG
CCAAGGAAGT GAATGCAAAG CAGCAGGAG GAGGCAGGT GGGGACGGCC CTCTGAGCTC TCCGCGATGG CTGGCGTGAG
GTGCTCTAA GACTCTNGG CAGCCCTGCC TTCCCTACTC AGTCTTCCCG ATCTINTGTC CACCTTCTG TGTGGGCCAG
NCTCCCGCA GGTACTCAGA GGCCGCTCAG AGGGCAGGT T

SEQ ID NO:1803: (Length of Sequence = 429 Nucleotides)

TTCACAGTTA TAGTTGGGA CATTACAAC CCTTCTCAA TAATTGATAG ACTACTAAAT AAAAAACCAT GAAGGATATA
CAAGAACTGT ACAACACTGG CCGGTGTGG TGNCCTATGC CTGTAATCCC AGCACTTTGG GAGGCTGAGG CCGGTGNTC
ACTTGAGGTC AGGAGTTCCA GACCAGCTA GCCAACATGG CGAAACCACA TCTCTACTAA AAATACAAAA AAATTAGGCT
GGCTGTGGTT GGCTTAATGC CTGTAATCCC AGCACTTTGG GAGGCCAAGG TGGGCATATC ACCTGAGGTC AGGAGTTGA
GACCAGCTG AAAAAATGG TGGAACCCA TCTCTACTAA AAATACAAAA ATTAGCTGGG TGTINGTGGT CTGAAAAAT
TAGGTAACT CCGTCTCAA AAATAATAA

SEQ ID NO:1804: (Length of Sequence = 278 Nucleotides)

GACCTGAAGC TCAAAGTCTC TCTCCTTACA CAACCAGCGN CAACAGGGCC AAGCTACTGG CTAAGAACAG ACAAACTTTC
CTGCTTACA CCACAAGCT GACCCGINTT GCCAGACGA TGTGCAGGN CTINTTACAG CCAAGGAGGG CCGCCGACG
GNCCTATGCT CCTATCAAT CCAATGNCAT CAAAGCAGAG TGCTCCATTC GNCCTCTAA GGNCGNCAAG ACTCCATTA
AGATTACCC TCCTGGTGG GCTGNCCCTG GGAACAT

SEQ ID NO:1805: (Length of Sequence = 349 Nucleotides)

GCATCCATGG CGGAGGGCGG CAGCACGAG GCGGGGCGG GCGGGCTCC GCAGGTCGTA ATCTGAAGGA GTGGCTGAGG
GAGCAATTTT NTGATCATCC GCTGGAGCAC TGTGAGGACA CGAGGCTCCA TGATGCAGCT TACGTGCGGG ACCTCCAGAC
CCTCAGGAGC CTATTGCAAG AGGAGAGCTA CCGAGCCGC ATCAACGAGA AGTCTGTCTG GTGCTGTGGC TGGCTCCCT
GCACACCGTT NCGAATCGG GCCACTGCAG GCCATGGGAG CTGNTGGAC TTCCTCATCC GGAAGGGGGC CGAGGTGGAT
CTNGTGGAG TAAAAGGACA GACGGCCCT

SEQ ID NO:1806: (Length of Sequence = 403 Nucleotides)

GTGCAGTGTG GCCAGATCTT TTCTAGTAAA ATGTGTGTTA CTGATGGGCA GACAGCTCTC ATTCAAGCAG TGACAGATGT
AAGCNCCTCC CATTTTGTG GCCCATTTGT ATTCAGCGTG TGGCTTCCA GTTGCTGGG ATCATCTCCA CCCAGACTAA
GGAAGAGGAA AGAGCTTGA CAACTGCACT TGGCTGTTT TNATGGATCA GGCAAGGAAT TGGCTCCAAC ACATTAGCTC
ACATTCCATT GGTTAGAACT GGGTTTCTCA ACTATTAGTA CAGGGTGAGT GTAGGGTTT GGCACCATGG GCATTTGAGC
TGGCCAAAGG CTAATCAGAG TTAGAACAAA GCCACAAAGC CTGTGAATGG TGTATTATGT TGTGAGGAGC TGTCTGTGC
ATT

SEQ ID NO:1807: (Length of Sequence = 426 Nucleotides)

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GTCTCAGCT TCACTCTGGC ACCACTGTGA GCACCGGGAA ACCTACCAGA AGTTGCTGGA GGACATCGCT GTCTGCACC
 GCCTGGCTGC CCGCCTCTCC AGCCGAGCTG AGGTGGTAGG CGCCGTCCG CAGGAAAAGC GCATGTCGAA AGCAACGGAA
 GTGATGATGC AGTATGTGGA GAATCTAAAG AGGACGTATG AGAAGGACCA TGCGGAGTCA TGGAGTTTAA AAAGCTTGCA
 AATCAGAATT CAAGCCGAG CTGTGGCCCC TCTGATGGGG TCCCTCGCAC GGCACGGTCC ATGTCCCTCA CGCTGGGAAA
 GAATATGCCT CGCCGGAGGG TCAGCGTTGC TGTGGTTCCT AAGTTTAATG CCCTGAATCT GCCTGGGCAA ACTNCCAGCT
 CATCATCCAT TCCTCCITAC CAGCTT

SEQ ID NO:1808: (Length of Sequence = 431 Nucleotides)

GGTACTTTTC CATTTAGATT CAAATGGAGC TAAATTAAG AGTTTATGA GCTGTAAAGA ATGAGGTAGT TTCTCCTAGG
 ACCCCCCAAA GACAGTGCAA GTAAAGACCG TTTGNTCTC ATTCGTGAT CTTTGATAGT ATGINCTGGA GTCTACTCCC
 CAGGAGCCAG GACAGGCGTG AAGATGGAGT CCTGTGCGCA GCTGGAGCCT TGCCTAGCTG GTGATCACAC AGCCTGGNCT
 GTACCTGCAC CCCACTGGAT GGTGGTACAT GGTGGCAGGG ACAGGACCAC ACCCAGTTAA GGCCAGACCA GGCTGAGTGT
 GACCCCTGAG GTAAACACTT CACTAAGCTG TGTCTGTTC ATGCCCCCTG CTCAGTGAAA GGTGAGTCCC GAGACCAGTT
 GGGTACCTCT CTTATGCGAA CCAGAGACAT T

SEQ ID NO:1809: (Length of Sequence = 401 Nucleotides)

CGTGAGGCCT TGAGCACAAG TGCAAGCGGG ACATCCTGCT CGGCCGGCTC CGGAGCTCGG AGGACCAGAC CTGGAAGCGG
 ATCCGGCCCC GGCCCACTAA GACCAGCTTC GTGGGCTCCT ACTACCTGTG CAAAGGAGGA GATCGACGTG TGGACCGAGG
 AGCGGAAGGG CACCTCAAC CGGACCTGC TCTTCGACCC GCTGGGGGT GTTAAGCGCG GCAGCTCACC ATCGCAAGC
 TCCTGAAGGA GCACCAGGGC ATCTTCACCT TCCTCTGCGA GATCTGCTTT GACAGTAAAC CCCGATCAT CAGCAAAGGC
 ACCAAGGACT CTCGCTCTGT NTGCTCAAC CTGGGCTGCC AAGAACAGCT TMTTACAACA ACAAGTGCCT GGTGCACATC
 G

SEQ ID NO:1810: (Length of Sequence = 233 Nucleotides)

AAGTGCTATA TTCATTGTAT TATAGAGAAG GTTGGGGAGC ACAGAAGAGG ATCAACCCAG CTTTGAAGG ATTAGAGAAA
 GCTTCCAGAG GGTGGACAT TTGAGCTAGC AAGAAAGCAC AAGGGAAAG GCATTTAGAC AGAGGAGACA ATTTGTCTCG
 ACCCAGAAGC ATTGGGGTAT GCTATGCATG GATAGNCAAA GAATTTTTC AAAAGGGGGG CCAGCAAGGC ATT

SEQ ID NO:1811: (Length of Sequence = 423 Nucleotides)

CAAAGAAAGA GTTGAATAT GTACATTGAA AAAAGGAAAG ACATTTTTC ATACCAACCT TTCCCTAGTT CGCAGTTTCT
 GAATAGTAGA AACAAACAC ATTTTAAAT CTTCTATCA ATTTAATTTA GGACGAAGTA ACACAACTTT TATAATTAAC
 CACTGAAGTT GTCTTAAAG ACAAACTTA AATTTTAAA TGGGTGTAC CATATTINAT GAGTGGACTG ACTCCAAGGT
 TGCCTTGCTC CAAGNNIGGG CATCGTGACA TTGCGTGAT GCCCAGAAGA AAGTTAATGG CAATGATGTC CAGTCAGAGG
 GCAGACATGC TACACATCAC AATGATGAGA GCTGCGGGAT TCTGCCCTCT TCAACTTCCA AGTAGNAAAT TATTATTTTC
 CATTCAAAC AACTGGGAGT GAG

SEQ ID NO:1812: (Length of Sequence = 394 Nucleotides)

GACCAGCCTG GCAACTTAGT GAGACTCTGT TTCAGGAAAA AAAAAAAAAA GTGTATTTGG CTGTTCTGAA GCAGGCCATC
 ATCACCTTC ACCTCACCA CAGGTGGCTC TCGGGGCTG GTCCATGGGC GGCTGTGGCG TNAGGATGGA GTCTAGCTG
 TGACCTGTGC CCAGGAGGGC GTGATCCGAG TGAAGCCCCA GGTCTCAGAG AGCAAGCTGT AGCCAGAGGT ACCAGCTTCG
 CCTGGGGCTT CAAGAACCTC CCATCTATCC CCATTCCTGA GACAGGAGTT ACAGTCCCTT TTGGNCTNA CATCCAATAA

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AGAGACTGAT ACCACTGGAG TGGCTGGCTT TTAATTCCCC TGGGCCAGAC CTGCAGCCTT GCCTTAATCC TTAA

SEQ ID NO:1813: (Length of Sequence = 344 Nucleotides)

CATCAGCGAC AGGTCTCCCT CCCAGAACCC CATCAGGACA GGAGAAAAGG CAGCAAGAGA GGTGGGGTGG TCCTGGCACC
TGGGCCACCA GTNTCTGAA TGAAGAGTGA GTCCCGGGTC AGGAGTCCAC ATCAGGIGTG GGCTGCTTCC AATCTGTAGG
TTCTCCTGGA GATTNTCACA ATCTGCCAGC TCTCTGGGAA TCACAGAAC ATCATGTCCC CTTAGGATGG CAGAAGATGT
GGCACAGCCT CAATCTCCAA CACTGAAACA CTNAGAGAGC TTGATACGTT CCTTAGGCAG GGCAGAAACA TCACAGCACT
TCACGNTAGG AACCACGAAA GAGT

SEQ ID NO:1814: (Length of Sequence = 442 Nucleotides)

GACACAGCAG GCCCCTGCCC CTGAAGGAGA CTGCATTGGA ATTTTGTCCA GGTGGCCCTG ACACATAGGA ATGCCCACT
ACTGTGACTA CCCTCTGAGA TAAAAAGCTG TCCTACTGAT TTTAGAAGGC CAAAATTAGA GGTCAATTTG GAGGTCATGC
CAGTGGACAT ATAACAGTTT GAAATGCTTG TTCCCCGGTG CCGTAAAGAA ATAGTACTTG AACTTAAATT TATTTCAGCA
GGCCATTTTT ATTTCTGCA GAAAGGGTAC ACTTGGCAGC AGTTTINCCA CGAGAGTACC CCGAACAAAG GAGACAGGGT
CATTTATAAC CTGACGCGTC CACCCCTCTG CTGTGTCCGG TTTCCATTGG CTGGAACAGG ACCTCACATT CTGTATTTGT
CCCGATTGGC TAGCAACTTA GGACTTATTA AAAGAGGCAA AG

SEQ ID NO:1815: (Length of Sequence = 299 Nucleotides)

GCAGAGAATC CCTTGAACCT GGNAGGCGGA GGTNACAGTG AGCCGAGATC ACGCCACTGG ACTCCAGCCT GGAACAACAG
AAGGAAATC CATCTCAAAA AAAATTGAAA AAAAATTCAN GANATACAGA ATGCAAAANG GGACCAAAAA AGTACCAAAA
ATTTCAAAAT TTGTATAAAC TGTACCAAT CTGGNTACGA AGCGTTATTT TTGCCACAG GGCCTTCCC TGGAAAGNCG
TTACAATAGC TNAGGCTTCC TCTTCAGATA GANTTAGAGT GGCAGTAGGA TAGGCTCTT

SEQ ID NO:1816: (Length of Sequence = 286 Nucleotides)

ACCCCGGGTC CCAGGTATGC TCCCACCTCC ACCTGCCCCA CTCACCACCT CTGCTAGTTC CAGACACCTC CACGCCACCC
TGGTCCCTTC CCATCGCCCA CAAAAGGGGG GGCACGAGGG ACGAGCTTAG CTGAGCTGGG AGGAGCAGGG TGAGGGTGGG
CGACCCAGGA TTCCCCCTCC CCTTCCCAA TAAAGATGAG GGTACTAAAG TTGTCTTGGT TTTTATTTTA TTATTATTTT
TTTCTTTTTC CAGTATACTA GCTTGTCTTT TAAGAAAGGG GATATT

SEQ ID NO:1817: (Length of Sequence = 320 Nucleotides)

GAAAGGAAGG CCAGGGTGGG AGGAAGGATC AGCTAAATCT GAGGGAAGAA GAAGGAAAGG AGAGGGACTA TTGCATAGCA
GATGCAAATG AAGGGACTGT CTTATTATAC AGTTTATCA TCTGTTAATA CTCATAATCT TGTTCTTTT TCAACTTTTA
TATAATTTTA TCTTTACATT AGTTAAATCA AAAATCTTAA AACACATTTT AAACGTGGTC ATAGGTACT TTTATATATT
ATTGAATTTA TAATAACAT GTTCTTTTNC TGGAAACTGG GATGNNACCN CGATGGTGTT TCTTGAATAT AAGAGTGTC

SEQ ID NO:1818: (Length of Sequence = 356 Nucleotides)

CCCAGGAGGC TGAGGCAGGA GAATCGCCTG AACCCGGGAG GCAGAGGTTG CAGTGAGCCG GGATTGTGCC ACTGCACTCC
AGCCTGGTGA CAGAGCGAGA GTTCATCCAG ACACACACAT ATATATATAA TTNCCAAACA GGCTTTACTA AACCCCTGA
GGTCTCATGA CACAGTAGAA AATCATGATT TAGTAGAAAG AGCATGGTCG TAGGAATCCA GTAGATCAGT AGACCTGAGT
TAGAGTCCCA AATCTGCCAC TTTCAATCTG TATGGCTCA GGCAAGTTAC TTAANCTTTC TGTCTCTCTG TTTTCTTTAT
AAAATGGGGG ATAATAATAG TAACCTCTTC ATAGGG

401

SEQ ID NO:1819: (Length of Sequence = 328 Nucleotides)

CCACTCCTGT AACCTGCTGG ATGACTCTGC ACTGCCCTTC TTCATCCTCA CCAGTGTCTT GGGTATCCTA GCTAGCAGCA
CTGTCTCTTT CATGCTTTTIN AGACCTCTCT TCCGCTGGCA GCTCTGCCCT GGCTGGCCTG TCCGGCACA GCTGGCTGTG
GGCAGTGCC TCTTCAGCAT TGTGGTGCC GTTTTGGCCC CAGGGCTAGG TAGCACTCGC AGCTCTGCCC TGTGTAGCCT
GGGCTACTGT GTCTGGTATG GCTCAGCCTT TGNCCAGGCT TTGCTGCTAA GGGTGCCATG CCTCCCTGGG NCACAGACTG
GGTGCAGG

SEQ ID NO:1820: (Length of Sequence = 359 Nucleotides)

CCACCATGCT CTGCACTCGC NCTGGTACCA GGCCCGCGAC CTCATGCTCA TGAGCCACTT GCAGGACAAC ATTCAGCATG
CAGACCCGCC AGTGCAGATC CTTTACAACC GCACCATGGT GCAGCTGGGC ATCTGTGCCT TCCGCCAAGG CCTGACCAAG
GACGCACACA ACGCCCTGCT GGACATCCAG TCGAGTGGCC GAGCCAAGGA GCTTTTNGGC CAGGGCCTGC TGCTGCGCAG
CTTGCAAGAG CGCAACCAAG AGCAGGAGAA GGTGGAGCGG CGCGTCAAG TCCCCITCCA ACTGCACATC AACCTNGAGC
TGCTTGGAGT TTGTTTIANC TGGTGTCTGC CATGTTCTT

SEQ ID NO:1821: (Length of Sequence = 208 Nucleotides)

CCTGGGTCTG TGACCCAGAG TTCCAACACA AAGACACTTT GTACTGGAAC GCTGGAGCCA TTCCAACATG AACAGCAAGA
ATAGAACCTG TGCTGGCTGG TCTAAGATCA AACCTCGNGA TGGTGGTTTG AAGTNCCTT TCAAGAAAG CTTGAAAATG
AAATCTCAGT TAGGCAAGNC AGATAAAAGC AGAGTTATTC TGGTGGCG

SEQ ID NO:1822: (Length of Sequence = 314 Nucleotides)

GGATGINTTG AGCCAGAGTT TAAGCCTGAC ACACAGGCTT TGGTCTCTAC TGAGCTGTCT CCAAGACTGG AACTACTTAG
TGACTCGGCA AATTTCTGCG CCCCCACCC TCATCAAAGC TGCTAGTTCA GATGTTGACA GTGTTTTCAT GAATGTTGGA
ATCTTACTAG TCCAGACTTA CTTAGGATGT TGTGGGGGAA GGCCTTGGG ATTTTCTGTG TCTTGCAATC ACAGAGGGAG
GCCATTTAG ATTCAAGAGC ATTKGATTAG GGGATCGTGA GGCAGGGATG CTACTGCGKA TTTCTCTCTT CAGG

SEQ ID NO:1823: (Length of Sequence = 344 Nucleotides)

AACAATTTTG TCTTACTTAC ATCTTAAAGA ATTAGAATT GGGTGGTGT AAGTGACTTA CTTCCAGGNN ATCATGCTCT
ATTCTIACCA GCAGGTCATA CCNNAATGTC AACTATCTA TTGTTAACCA TGAATGNTAT TCAGATCTAT TACTTTTCGT
GAAAAGTGGG ACATGTTACT TCCAACCATG GCCTGTCAAC GTGAGTGTGA TCANCTTTNT CCAAAACCAAC ATGGGTGCGA
GGAGCTAAGG GGTGGTACCC MAATGTTAGG GACAGTGTTA GGAAGGGCA AGGGAAAAGA AGTGACTINGA TGTCTTATGA
GRAACCCGTA AATGGCTTAA AAAA

SEQ ID NO:1824: (Length of Sequence = 340 Nucleotides)

GTGAGTGGCA GGTATCATGA ACCACATTGT GGACCTGGAG TTGCTAGGAC CTTTCTGCC ATTACACAGA AAAATCCTCC
CTGAGAACAC AGCCATTNGA GGNACATGG CAGAGGAAGA TAAGACAATA AACAGAGNCA CATAATTATG GCCAGCGTGG
GGGCTNACGG CTGTAATCCC AAAACTTTNG GAGGCGGAGG TGGCAGATC ACCTAAGGTC AGGAGTTCGA GGCCAMCCTG
GGCAACATGG TGAAACCCGT CTCTACTAAA AATACAAAA TTAGCCSGGC GTGGTGGCAC GGGCCTGTAG TCCTAGCTAC
TCAGAGGGTT AGGCAGGAGA

SEQ ID NO:1825: (Length of Sequence = 357 Nucleotides)

AATTTGGTTG TGCCAAATT CTCAGTCCAA TCACCTGGC CCAGGGCCTG GCGTGGGAGG ATGTGGCAGG CTCGTCTCC
TTCTGGGGTT CTTGGTCTGG AGGAGTCTCC CCAACAGCGC CAAAGCTGGC TGTTTCCGC CCAAGCCCC AGAATTGTA

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ATGAGAGGCA AATCTACCTT GAATGCACCT CCTCTCTAGG CTGGGTGAGG TCACGCAGAC ACAGAAGGGC AGGACAGAAC
TCCCCATCTT CTGGGGGCCA ATTGCTCTGG AACTGTGCG GTCANCTTCC TTTTAAAGT GCCAGTATCG GTGGGGCAGG
AAGGGACTCT CAGGGCTGAG CAGAGCCTTC TTCAGCG

SEQ ID NO:1826: (Length of Sequence = 207 Nucleotides)

CCGGCCCCCTT CAGTCCCCAG CCCCTGCCCC AACTCCGACT CCTGCACCCA GCCCGGCTTC AGCCCCGATT CCGACTCCCA
CCCCGGCACC AGCCCCTGCC CCAGCTGCAG CCCAGCCGG CAGCACAGGG ACTGGGGGGC CCGGGGTAGG AAGTGGGGGG
GCCGGGAGCG GGGGGGATCC GGCTCGACCT GGCTTAGCC AGCAGCA

SEQ ID NO:1827: (Length of Sequence = 309 Nucleotides)

GTGTGCGCCT GTAGTCCCAG CTACTCCGCA GGCTGAGACA GGAGAATCGC TTGAACCCTG GAGGCGGAGG TTGCATTGAA
CCGAGATCGC ACCACTGTAC TCCAGCCTGG GTGACAGAGC GAGACTCCAT CTATAAAATA AAATAAAATA AAATAAAATA
AAATAAATAA AAATAAATAA AAATAAATAA AAATAAATAA AAATAAATAA TAAATAAAA TAAATAAAA TAAATATAA
AAATAAATAA AAATAAANTA GAACCACCAT ATGANCCAGC AATCTCATTG GTGAGTATAT ATCCGAGGG

SEQ ID NO:1828: (Length of Sequence = 382 Nucleotides)

ATCTCTGACC ACCCCCTCCT CCCCATCCCA CCTTTGGTA ACTCCCCGC CCAGNCACT GCCAGATAT ATTCTTCTCC
TTGGGCAAGA AGTTCTGTGC ATGCAGGTCA AATCTGAAAG GGNCAATTTCT TTCTTTAATG AGTGTGAGG ATGGGGGATG
TGCTGATGA TATAAGGGGC CCTCCAATCA GACTTTCTAA TCTAAGTAA AAGNTAATTA CAATGTGAT GCTAAAAAG
AAGTTCTGG CAAATAGAA CTTCTGAAGC ATCATAAATC AGATGACTAA TATTTGTGAT CCCNNTTAA ATTTTCATGT
GAAGAAGAAT AGGGGATGTA ACTGAAGRAA TGNACTAAA GTTCTTCTAT GTATTGATAA CC

SEQ ID NO:1829: (Length of Sequence = 361 Nucleotides)

GGCGCGCGCT CTGGAGCTGG ATGTCCAGGC TGCGGGCGCT GCTGGGCCTC GGGCTGCTGG TTGCGGGCTC GCGCCTGCCG
CGGATCAAAA GCCAGACCAT CGCTGTGTG TNGGACCCA CCTGTGGGG ACCNCAGCGG CTGAAGTCCG GTGGCCGCTG
GGACTCAAAG GTCATGGCGA GCACGGTGGT GAAGTACCTN AGCCAGGAGG AGGCCAGGC CGTGGACCAG GAGCTATTTA
ACGAATACCA GTTCAGCGTG GACCAACTTA TGGAAGTGC CGGGCTGAGC TTGCTACAG CCATCGCCAA GGCATATCCC
CCCAGTCCA TGTCCAGGAG CCCCCTACT GTCCTGGTCA T

SEQ ID NO:1830: (Length of Sequence = 180 Nucleotides)

AAGAACGTTG GTGCTGCA GGAGGCGCTG CAGCTGGCCA CTTCCTTCGN CCANCTGCGN CTCGGGGATG TAAAGAACTG
AGTGGGGAAG GAGGAGGCTC CCACTGGATC CATCCGTCCA GCCAAGAGCT CTTCACTGTC TACAAGAACA TTTGAATCTT
GGGACCTTTA AAGAGCCCCT

SEQ ID NO:1831: (Length of Sequence = 335 Nucleotides)

AGATCTTCTA TATTCGACT ACTGATTCAA ATGCTAATCC TGGACGGGCA TGGTGGCTCA CACCTGTAAT CCCAGCACTT
TGGGAGGCTG AGGCTGGTGG NTCGCTGAG GTCCGGAGTT TGAGATCAGC CTGGCCAACA TGGTGAAACC CTGTCTCTAC
TAAAAATACA AAAATTGCT GGGCGTGGT ACATGCGCT GTAATCCAG CTACTCGGA GGCTGAGGCA GGACAATCAC
TTGAACCCGG GAGGCAGAGG TTGAGTGAG TTATTGCACC ATTACACTCC AGCCTGGGTG ACAAGAGCGN AATTCCATCC
CCCCACCAA AAGCG

SEQ ID NO:1832: (Length of Sequence = 337 Nucleotides)

GTATTGGAG ATGGGACCTT TGGAAATGCT TTGATTAGGA AGAAGGAGCT TTCATGAACG GGATTAGTGC CCTTATAAAA
GAGGACGCAG AGAGCTCTCT CACACCTTCC ACTGTCTGAG GNCACAGGGA GAAGGCCCTG TCTATGAACC AGGNAATGAT
CCCCAACCAG AACACCTTGA TCTTGGACTN CCCAGATGCT CCANATCTNT GAGAAGCAAA TTTCTGTGCT TTATAAGCTA
TCCAATGTAT GGAATTTTNG TACAGCAGCC CCAACAGACT AAGNIATTAA TAAAATAAAG ATGTAAGATC TCTGTGAAA
ATGCACAAAT AATATCT

SEQ ID NO:1833: (Length of Sequence = 244 Nucleotides)

TCTCTCATTG TAAGCACAAA TTGTCOGTG TCTGGTTATT AAAATCGCTT TGGGTCTATA ACAGCCACTC TTGTCCCCC
TTTTAATAGA AAATGTCTAT TCTAGCCTGG ATTCTCCCC ACTGGAGGTG GAGGGTGGGA AGAGAAGGGA GTCAGCTCTG
ACAGCTTACA AACTGGGAAG TTCTGTGCAT CTCCAGGGAT TCCAGAGTTG AAGATCTGGT TGTGGAAGC TGGGCGCCCA
GTGC

SEQ ID NO:1834: (Length of Sequence = 322 Nucleotides)

TCCTGTACTA CACCTTTGCC AACATGGCCA TGTGAACCA CTTGCGCAGG CCCCCGTCTT GCAGTACCTG TACTACCTGG
CCCAGATCGG CATCGCCATG TCTCCGCTCA GCAACAACAG CCTCTTCTC AGCTATCACC GGAATCCGCT ACCGGAGTAC
CTGTCCCGCG GCCTCATGGT CTCCCTGTCC ACTGATGATC CCTTGCAGTT CCCTTNACC AAGGAGCCGC TGATGGAGGA
GTACAGCATT GCCACCCAGG TGIGGAAGCT TCAGCTCCTG CGATATGTGT GAGCTGGCCC GCAACAGNGT GCTCATGAGC
GG

SEQ ID NO:1835: (Length of Sequence = 178 Nucleotides)

ATGAAAGCAC AAAAGAAGTC TATCAAAAT ACAAAACTT AAAACCGAGT AAACAAAAC TCAGAAAGAA TGAAACAAT
TGGAAAATAA CTTCAAGAAA AAAATGTAAA ATGGAAACAA TACAAGANCA ATTGTGCCC TCTGAAAAAC AGAGGTAA
GTCAGAATTT TTTTGINC

SEQ ID NO:1836: (Length of Sequence = 377 Nucleotides)

CGCTGGNAC CACACCCAGC TAATTTTTGT ACTGTTAGCA GAAACAGGGT TTCATCACGT TGGCCAGGCT GGTCTCGAAC
TCCTGACCTC AAGTCACCCA CTGCTTGG CCTCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGTGC CCGGCTTTA
TGCTGAGTTT TAAGGGCTGT ATGAGACACC AGGTGGTGGG AGGGAGCTGT TTTGAGAGCA GGAATTTAG GATACCTAGG
AAATTAGAAA ATTAGAGAAG TCATAGGATC TTGGAACATA GGGAGAACCT TAGAGTCTCTG TGGAGCAGAA CCCAGCATTT
GTATGTGGAG GAAACGGAGG GCCCAGAGAA GTTGTGACTT ATNCCGGGGT CAATCTT

SEQ ID NO:1837: (Length of Sequence = 388 Nucleotides)

GGAGAGAACA AACCTCTTA CTGGCCTTGG GCCATCCCT CTTTCTCCA CACTGCTACT TTTGAGTTAT CTCATTTTGC
TCCCAATAGT CAGCCTTGAC TTTTCTGGGC TTACCTGGGC ATCAGGGACC CATGTGCAC ATTCACTTGT CCOGATTATG
TCTGCCTTAG AGCGTCTCCT AGGGCAGCCA GTCTGGAACA GTCAGTCACC TAGGGTCTCTG GAGCTCCTGC AGTCTGCCAC
TOGCTNCTTC TGCCTGATAA CAAATACTAT TCCTTTTATC CTTGCAACTC GACCCAGAAA GAGGTGGCTG TCAATGTCCA
AGGCCCTTGG GAAACGAAG ACTGGAAATN TGAAACCACT GGGCACAGG GGAATGGGTG GGTCTGAG

SEQ ID NO:1838: (Length of Sequence = 369 Nucleotides)

TCTCTTTATG CCAACAATTA ACTGGGAGCT AGGTAAATTT ATTTGGCTAG ATAAACTAC CAGCTAGATG GATTTATTTG
GTGCCCTCAT ACAGAATGCT GTAGAAATG TAAAGAAGAG AAAGCTCCTT CCAGCTAGAA GCACATGGGA CTGCTCTAG

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GATGGAAACA AGTCCTGCTA TTTTCACAAT CCTAAGNGT TCTCCAGGCC TCTGGAGAAC AAAGTAAAGT TGTAAGATCC
 CCAAAGACAC GGAAATCCTT GGACGAACAG ATTAGAAATA ACTACAAAAA ACAAGTTTTT TACTTTCGAA AAGGGTACTG
 CACTGAAACC AAGTTGGACT TTTGGTCCAC CCCCAGGGCC CTCTTCAGG

SEQ ID NO:1839: (Length of Sequence = 359 Nucleotides)

CNNGTAGGGA AGAGGACTTT ATTGGGATGT TAGTAGGGAA ACATGAGAGG GTGAATTCCA GGGAAATAGAC ACTAGGACCA
 AGGTGGCGGT CACCTTAAAG AGCCATAAAT AAACTTAAAA AATTAAAGTG AGGAGGTGCC ACGTGGGGAG GCTGCTGGGA
 CTATCTGGGA ATTCTTAGGG ATGGAATTTT GGAATTGGAA AGGGGAAATA AGAATTTCCA GCCGTNTCAC AAAAGGGTGT
 GAAATGATCA CTTCAGACT CCTGCTGCC CTAGGCTGGG AGTTGGGGTT CTGGGGCTCC AGGAAGAGGG GAGGTCTGGG
 CTGGGCTTNA AGGGGTGAAG AGGGCCCGGT CAAGGTCGT

SEQ ID NO:1840: (Length of Sequence = 360 Nucleotides)

CCAATGAGCC CAGCCTGACA CATATGGACT GCTGACAGG TCCACTGTCC CACGAGCAGA AGCTGTGACA AAGCTTGGA
 ATTGCCTTGG CATCCACCTT TGGCTCTATG CCTCTCTTCA CGGCACGGCT GACCAGGGGA CAGCTCCAGC ACCTTGGCAG
 AAGAGGGAGC AACACTTCCT GGAGGCCTGG CACCGGCTCG GAGCAGCCTG GGAGCATCCT GGGCCCCGAA TGTGCTCCT
 GCAAAANAGT ATTTTNTCCC TACTTCAAAA AGGAGCCGGT GTACCAGCTG CCTGCGGCC ACCTCCTGTG CCGNCCCTGC
 CTGGGTNAGA AGCAACGGTC CTGCCCCATG ACGTGCACAG

SEQ ID NO:1841: (Length of Sequence = 332 Nucleotides)

GTGTGATTCC ATTTATATGA AATGTCCAGA ACAGGGAAAA CCTATTNAG ACAACAGAGA CACAAAGTCG ATCAGCAGTT
 GCCAGGGGAG GAGGAAGACG GGAGGGGAAA TGATTGCTTC ACGGGGTGAT GACAGAATGT TCCAGAACGT GACAGAGGTG
 GTGCCTACAC AACTTCTTGG ATGTACTAAA TGCCGCTGAT TGTTCACTTT CAAGTGATTG ATTTTITAGGT TATTTGAATT
 TCATCTCAAT TAAAAAACC AAACAGCAA ACTGCTCCCG CCAGCTTCAG CCCCAGGCA GACGGCGCAN CCGTGGGAGG
 GATGCTGAGC CA

SEQ ID NO:1842: (Length of Sequence = 246 Nucleotides)

GCTGGTCAAG GCAGAGTTTA CTGAACININ AGTTTCTTCC TGCACACACC GGGCATGACA CCTTCAAGTC TGNCCAGCAG
 TGGGTCCAGA AAGTACCCTG TGTGCTTGG ACGCAGAGGC TACAGTTCTN ACTGTGTGGC ATGGGAGCCT TCANAGTGCC
 CTCGGGAGCT GCCCCTGGTC TTTGTCTGNA AAGTGACTG GGAGGNTAGA AAAAGCAGCG GGCTGGCATT GTTTCGGGGG
 TGGGGT

SEQ ID NO:1843: (Length of Sequence = 313 Nucleotides)

ATTTATTGCA AACAAAATTG AGGTAAAAGA AGCTGACCCA GAACCCACGC CCGTCCAGGC TGGGGAAGTC TCTACTCGCC
 CCACACCAGG CCCCAGACAC CGCGGGCCCG AAGCAGCCCC CAGAAGACAG ACGGGCCCTG CGCACTGAGG TAGCTGCATC
 TTAAGCCCCC ATGAGTACAA CTGCCCAGGG CTGCCCAATT CCCAGAGGGG AGGAGGAGAG AGAGGCAGGC AGGGGGAGCC
 CCGGCTTCAG GTGGGGCACA CCCCANACCC TCAACAAACC TTCCAGCCTC TTGGGGCTGG GGCACCTTCT GCC

SEQ ID NO:1844: (Length of Sequence = 274 Nucleotides)

CTTCGCTTCT NAAAACAAA CTCCAGCCCG TGCCAGTGGG GACTTGGTGG CCGNCGCTG CCAGAATGCT CCACTGCCAG
 CCGGCCCCC TGCTCTGGTT TCCCTTCTGT TTAGTGGCGA CACAGGCACC CAGCTTTGGG GTGGTGCTGA CGTCCCAGG
 GGTGCCAGGA GCCACTGGGA CAGGGTGAGG CTCCAGACG CTCTCGAGG TGCCAGCTC TCCAGGGAGC TTCTGNNCCA
 AGGNCGTCTG AGGGATCTGC TCCTTAACCN CCCC

SEQ ID NO:1845: (Length of Sequence = 441 Nucleotides)

GGGGAGGGGC GCACACACGA AGGGAGGTGT CAGCCGGGAC CGGAAATCCA ACACGGCAAA GGAAAAAAA CACAACCCGT
 TTCCCAAAGG GAGGAGCAGC AGGAGACGAT GAAGAGAAGG AACAGAACTC TCTGGGCAAT TCTGATGTAC ACCCAGGTAC
 AGTGGGGATC TCTTCACITG ATGCCCCAAA AAAGGGATAA ACAAAACAAA AACGTGAGCA GCCAGCTTCA TTCTCTTCTC
 TGCTTTGTCT CTGCCCAGTG ACTTTGGGTT TTGTGTGAA GCTCTCTTAA TTCTTTGACC TTGAAGTTCC TCAACATCTA
 TCCCAGTAGC CTCAGTTTCC ACTTTGCTTC AACTAACATC TTGGACTTTT TTCAGTCTTG AACCAAGGCTA AACCTTTGAG
 ATCTTGAAC TCGACTTCAG CCTACTTAGC TTGATACTAC C

SEQ ID NO:1846: (Length of Sequence = 255 Nucleotides)

ATGAATTCAT TGIGTATTTA TTATTCACAG TTAATCATA CCTACCAAT GCTATCCGA GAGTTAAAGG ATTAAGTACA
 TAGGTCTTTA TTAAACACT GATTTTTTTT TTAAATATA TACACACAAA ACTTAGTTCA GCAAGGCTTC ATGATATACA
 CCAATTCOA AATAAAACAA TCAAATGGTC CNGNGTAGA ATGCCAGATT CCTTTTATCA TCTGCGAGGA AAAGAGAAGC
 AGGATGAGGA AGAGT

SEQ ID NO:1847: (Length of Sequence = 311 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCAC ATCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
 GGAGCCAAAT CTCATTGTIN ACCCTCAGTC ACCACCCC CATGGAGC CNCTGGTTAC GNCATGGATG ACAGGTGTCA
 TGCACAGGGA GAGAAATTTT CCCCGGATAC CCTTGAGG GGNCCAC CCCCAGGCTA GGGTGGGAGG ATTTAGAGCA
 GTGCAAGAAA CCAAGGAGGA TGGAGCATCC AAAGGAAGC AGGCAGGC TNGGGGATTG AGGGCAGGAA GGGCT

SEQ ID NO:1848: (Length of Sequence = 311 Nucleotides)

CCACTGGCCT ACATTATAGA AGTCTGTAT GCGGACCCTG CCAITGTCTAT CATGGACGCA GGCCATGACC ATCATCACCA
 CCCATTTTNT TGTCTGAAGA GAATCCAAC GCTACCCAAC CATCTGTGTC TGCACTCAGC TCAAATCTTA CATCAGCCCC
 TATCATCCGG TAGCTGAGGA AATAGTCACA GGTCTCTGCA TTACAGCCTG GTTTGCCATA TCTAAAGCAT CCGTTAGTTT
 TTCCACAGTC GTCCACTTTG ATTTTGGCAA ATGGNTCCAC AGGAGAAGCA GCAGGGCTNN GTGTCCGGTG T

SEQ ID NO:1849: (Length of Sequence = 318 Nucleotides)

GTGAGTCCCC CAAGAGGGGC CTCAGTCAG AATGTGATG ACCAGTGGGC ACAGGTGGAG TGAGTGCTTG ATGCCCCATGG
 TGAAAGCAGG GATGTGGGGC TTGTGCACAG TGANCTGCTG GACCTGTGG GAGCCGGGGC CAGGCGGTGG CGTGAGGTCC
 AGAGGGTAGG CGAAGGCTTG GCCATGCTGT AAGTAGGGCT GCGGTTCTNA TAGATGGATG GCTCAGGTGC GCGGTACGTG
 GTAGGTCCAG GGCTCTCTGC CACATCCTCC TTGTAGANCC AGTTCTGTGC CCTGGAGGCC AGACTNTAGC AGGGAGCA

SEQ ID NO:1850: (Length of Sequence = 406 Nucleotides)

GGAAGCCACT GATTTTCCCT CCAGTATGAT GATTTACTTT AAAAATGAAC CCAGAGGGAC GGGCATGGTG GCTTATGCCT
 CTAATCCAG CACTTCAGGA GGCTGAGGCA GGCAGATCAC CTGAGGTGAG GAGTTGAGA CCAGCCTGGC CAATATGGTG
 AAACGCCGTG NTCTACTGAA AATATAAAAA TTAGCGGGT GTGGTGGTGT GCACCTGTAG TCCCAGCTAC TCAGGAGGCT
 GAGGCAGGAG ACTCACTNAA CCTCTGTGGT GGAGGTGCA ATGAGCCGAG ATTNCACCAC TGACTNCAGC TTTGGCAACA
 GAGCAAAGAC TNCGTCTTCA AAAAAAATA ANAAGGGAAA AAAAACCNG NAAAAGCTTT TTTATGTGTA AAAACAAGTG
 GGTAC

SEQ ID NO:1851: (Length of Sequence = 328 Nucleotides)

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CTGAGGGGCA TTTTATTATTA TAAATTTAAT ATGGTTGATT AATGAAAAAT GACAATGAAG TACCAAGAAA ATGTTTGTCA
ATATAAAAAT TTTAGCAGCA TTTCATAGT TTCAGGCTCC AACATTAGTC GTACTTCCTC CCTCCCGCTA TCAAAAAAAG
AAGAGACTCC AATGGGATGG AGTAGAGCCT GGGGGTGTCC AGCTTTGTGT GGGCCTCAGA GAAATACTCC ATCCAGCATC
CAGGATTCTC CCTCCCTCTC ATCCCTGAAG TGCTAGAATG TCAAAGCACA GAAAAAGCCT CCTTTGTGCT GACATTGGAG
ACAAGGAT

SEQ ID NO:1852: (Length of Sequence = 174 Nucleotides)

GGGCAGGACG GCTCTNGGCC CTTCCTGGCT GACTTCAACG GCTTCTCCCA CCTGGAGCTG AGAGGCCTGC ACACCTTTGC
ACGGGACCTG GGGGAGAAGA TGGNGCTGA GGTTCGTGTT CCTGGCACGA GGCCCCAGCG GCCTNCTGCT CTTACNAACG
GAGCAGTAAG GACG

SEQ ID NO:1853: (Length of Sequence = 252 Nucleotides)

GAGCCATGCA CACACACGGC CGCATAGTCA CACACGCATA TCTACATGTC CCCCCACAT ATACACACAC ACATATACAT
GGACCCATGC ACACACACAG CTGGATATTC ACACACACTT GCACATCCAC TCCATATACA TAGACACGCA CAGACACAGC
TGCATGTTCA CACACGNGGA CGTGCACAG GACACAGACA TGCATGCATA TGCCACAGG TGTGTACAGC CTCAGTGGTG
GGGGTTGGCT GT

SEQ ID NO:1854: (Length of Sequence = 288 Nucleotides)

GGAAGGAGGG CTAAACAATG GTCTGCAGCT CAGTTACTCC TCATCCTCGC CTGGGCCGGG CCAGCATCCA CTCCCCTTCC
TGTAAGCAT TTGGATTTC TTGGGGAAAC AGCCCTGCC TCTGTCTGA TCCATGTGTT TTGAGATCTC ACAGTAGCAA
GTGACTCATG TTGGTTCACT GATTCCCGA GGCTGATTCA AGGATGTCCC CAGCTAGACC CAGGATGGTG GACTCCAGAT
TGGGGCACTG GGCAGTTTCA CATCCTCAAG GCTTGGCCAT CATCGGGG

SEQ ID NO:1855: (Length of Sequence = 293 Nucleotides)

AAAATGCTTG TTGATATTTT AGTTATTAAT TCATATTAAC TTTGGCTGAA ACTTTTAAAT TCTATTGIGA ATAGTCAAGT
AAAATTGAGA TTGTTACATT CTGGGTTAGT ATTAGATGTT TTPTAAGATT GTTTTAAACA AGATGTTTTT AAGATGAGTT
TTAAATAGTT CTCTTAACAC AAATAAGCT TAATATGAGT ATTGAAGGA AATTATCCA AACCATTCCA GTTCCTGGCT
GTGAAAGGCT TTTCCAGGGC TAATAAGTTT TCCACTTCAG CCGTAAGTAG GTG

SEQ ID NO:1856: (Length of Sequence = 308 Nucleotides)

ATCTTAGCAG AATCTTGAAA AGCCCAGAGA TCCAAAGAGC CCTTCGAGCA CCACGAAGA AGATCCATCG CAGAGTCTTA
AAGAAGAACC CACTGAAAAA CTGAGAATC ATGTTGAAGC TAAACCCATA TGCAAGACC ATGCGCCGGA ACACCATTC
TCGCCAGGCC AGGAATACA AGCTCCGGT GGATAAGGCA GCTNCTGCAG CAGCGGGCAC TTACAAGCCA AATCAGATGA
GAAGGCGGCG GTTCAGGCA AGAAGCCTGT GGTAGGTAAG AAAGGAAAGA AGGCTGCTGT TGGTGTTA

SEQ ID NO:1857: (Length of Sequence = 299 Nucleotides)

GGGGAAAGCT AATTGGCAAT AATCCTTGCG GGAAGGTCAG ACTCCTCTCT TACAGATCTA GGGGAAGGCCT GGTAAATGA
TGGCTCTTTG GAAAATGCCA AGCTCCTTCA GATTCCATAC CCTCTCGGGC CCTCAAGCAT AGGCAACGAA CTGTGTTCTG
GCTTCACGNT TTCTATTGA ATCAAAGCTC TCATGCATGG CCTGGATTG TAAACACATG CTGGCTGCCA GCAGTGGCAA
GTTAGCCTCC TGACCCACTT CTCTCCTGCT TTCACTCTGG TGTATGAAGG GGGATGAGG

SEQ ID NO:1858: (Length of Sequence = 295 Nucleotides)

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TAAGACTTCC TGTTAGTAAA AGCTACCTCA TGAAAAGTAT TGATGTTATT TGCCAACATT TAGACTAGCT TTTGTTACCG
 TTTCAGTTAT TCAATTTAGT CAGCACATGT TTGAGTGTCT TACTGCAGGT GAATAATCCA TGATTTCTGC CCCAGAGTAG
 TTCATAAGAC TGGTAGGATA CATAGATTTG TAAATAAATA ATTATAATTC TGGGCAGTAA GTGCTGCTAT AGAAGTCTCT
 ATAAAGCAAT GTGCAAACAC AAGAAAAGGA GCCGTTAATT CCTTATAGGG AAAGG

SEQ ID NO:1859: (Length of Sequence = 326 Nucleotides)

CTTTATTTAG TGCTGGGGCT TTGGAAGCAA ATGTACCTGA GTTTGAATCT CAGGGATAAC CTTTGTACTG TGGCCCTGGG
 TAAGTTACTC ACTGTCTCTG AAACITCAAG TTCTTCATAA ATAACCTAAG ATGGACAATC ATAACCTCTCT CTTGGATTGA
 GGTAGGAGAA TATGTTGGAG GCAGGGAACC GAAGGCCATT TCACTCCAAC TTCTAGAAC TAAATTAATA GGAAAACCTT
 AATTTTCCAT GCCTAAGTAA CAAAAGGACC AAAGGTTACT CCGTTTGCAA ACTCCACCT TTTCTGCATG GCAGATGGGA
 AGTTGG

SEQ ID NO:1860: (Length of Sequence = 294 Nucleotides)

CCACCCCTAA AAGCACCTGG CCCCGCTACA GCAAACCAGG TCTGTCCATG CGGCTGCTGG AATCAAAAAA AGGCCCTCTCC
 TTCTTGGCGT TTGAGCACAG TGAGGAGTAC CAGCAGGCTC AGCACAAGTT CCTGGTGGCC GTGGAGTCTA TGGAGCCGAA
 CAACATCGTG GTTCTGCTCC AGACGAGCCC TTACCACGTT GACTCACTCC TGCAGCTCAG CGATGCCTGC CGCTTTCAAG
 AGGATCAGGA GATGGCTCGA GACCTCGTAG AGAGAGCGCT GTACAGCATG GAAT

SEQ ID NO:1861: (Length of Sequence = 183 Nucleotides)

TGAAGACTCC TAATCTAGTG CCTCGAGAAA AGCAGGCAAC AGAGGCCTGA TGCTGACAT TGAATCTTTG GAAGATTAAA
 CTTCTCACA GATTTINATA ATNACTTTGG AAATNATGAC TGATCGCCAG GCTGTTCCIT GGGTGGACAG TTTGTCTTTT
 TTTTITTTTT TTTTITTTT TTT

SEQ ID NO:1862: (Length of Sequence = 296 Nucleotides)

TTGGGCTTCT TAAAGTTCTT CCCATCCCTC CTAAGGTCTA AGATGATGCA TTAAACACAG AGGATGCCCA ACAGTGGCTG
 ATGGAATTAC CAAGTAAAT CTAAGAGGTA GAAAAATGIG GTAGTTTTTA AATTTTATTT TATTAGTATG CAGGTGGGAT
 TCAGAGACGT AAGATCTTAG CCTTTATTTT CAACATCTCC CATGCATGTC AACAAAGATT ATCAAACACA GGAAGTGAAT
 AAAATACTAT GTAGACACTG ACCCTCTTTA TATAAAATGT GATTGATCAG GTCTGG

SEQ ID NO:1863: (Length of Sequence = 259 Nucleotides)

CAAAACAAAA AGGGGCTCAA ACCAACAGGA AGTCAGCCCC ACCGCAAGCC GGACTACAAC TAACTGTGTC TCTCCACGCT
 CAGGCGTGGA AGCCAAGGCT GTGCCAGGCC TGGCCAGGCC AAGCAGGATG ACAGCAAACG CATTTCTGAAC GTNTAGCAAT
 CAGGTCCCTT GTAATGTGCT TGGAGAGTNT GGACAAGGCG CGAGATGACG AGCTATGAGC TGTGGAAGGG AATGGGGGAA
 GCAGAAGGCG ACAAACAGA

SEQ ID NO:1864: (Length of Sequence = 290 Nucleotides)

ATCCTTACCA ACAATGCTTC CCAACTGCCT CAAAGCTCTC CTAAATGAGA ACATAGTTCT TTCTGAGCAA GGTCTGTGG
 ACCATGAAGA ATGTCACCAA GCTCCCTCA GATCAGCGG GAGCTCAGCC AAAGCACAAG TGCACTGCCC AGCTCTCC
 ACTCTGCACC TGCTGCCTCA NACTCCCTAC GCTGAGCCCA GGCCCTTACC CTCTGAAGGT GTTCCCATG TGATTCTGAC
 ACACACACCC CACAAGAACC AGATGATCTA TENCATACAG CATTTAGCTA

SEQ ID NO:1865: (Length of Sequence = 236 Nucleotides)

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CATTTCTGTT ACATTGAGAC TTCAGTCACC AACATCTGGT GGCAGAGATA CAGGTGTATG AAACATTTCT ATTTACCCAA
 ATATGCCAGT TCCCAATAG GATGACTGCA TTTAGTGTTA AACTGGCTTT TCTCATTAGA TACTCTAATT GAGGAATATT
 TAGCTTCTTG AATAGAAACC ATCCAAATGA TGTTTTTTTT TTGATATGTC TGTAACTATA AAAATCAGCA AATAAG

SEQ ID NO:1866: (Length of Sequence = 424 Nucleotides)

TACGGGAAGG CGGTGTTTGG AGGCTGGAGC CGTGGCAACG TCATTGAGAA AATGCTCACA GACCGGCGGT CTACAGACCT
 TAATGAGAGC CGCCGTGCAG ACGTGCTTGC CTTCCCAAGC TCTGGCTTCA CTGACTTGGC AGAGATTGTN TCCCGGATTG
 AGCCCCCAC GAGCTATGTC TCTNATGGCT GTGCTGACGG AGAGGAGTCA GATTGTCTGA CAGAGTATGA GGAGGACGCC
 GGACCCGACT GCTCGAGGGA TGAAGGGGGG TNCCTCGAGG GCGCAACCCA GCACTCGCTC CGAGATGGAG GAGGAGAAGT
 CGATTCTCCG GCAACGACGC TGTCTGCCCC AGGAGCCGCC CGGCTCAGCC ACAGATGCCT NAGGACCTCG ACAAGGGTCA
 CCCCCTCTCC ACCCTGGACT GGCT

SEQ ID NO:1867: (Length of Sequence = 256 Nucleotides)

AAACAATTGA AATCCACAAG AAATTACTAA CAGCACGTGT TTACGTTTTA TCCTGAATCA TACATTTTAA CAATTCACAG
 CTACAGGAAA TCTAGAACAA AATCAAATAT TCATCAGTIT GGGTIGAAAA GTTGAAGAT TTTGCATCTT ATTGAAAAGA
 ATTTTTCAAA AATGTTTCTG TACAAATGAA TGAATTGCA CCAGGCTGCC CATGGACACC AGGTGTGGCC GCTTCCCAAC
 GGTCACCCCAC CAGCTT

SEQ ID NO:1868: (Length of Sequence = 297 Nucleotides)

CAAGTTTTTT TTTTATTGT AGCTATAGCT ACAACTTGGC AGCATGGGGG AGGGTGGGAA TGTCTGGAG GGTCTCCAG
 CCTCCGCAA GCAGAGTACA AAGGCTGCTC GGGGGGCCCG CCGAGGGCGC GGTGTCAGCA GTGNAAGCAG CAGCACTAAA
 CCTGGTGGCC CCTCAGGTG GGGTGTCTGG AAGACGGTGG GCAATCCCTG CAGGATGGGC GAGGACCAGA CCCCAGGGCG
 GGGATCCTGC ATCCCTAGAC CATGTTGGGT CCTGGGTGAN GGCACCTNGG NATGCTA

SEQ ID NO:1869: (Length of Sequence = 470 Nucleotides)

CAGACATCTG GAGCATGGGA CTGTCTCTGG TAGAGATGGC GGTITGGAGG TATCCCATCC CTCTCCAGA TGCCAAGGAG
 CTGGAGCTGA TGTTTGGGTG CCAGGTGGAA GGAGATGCGG CTGAGACCCC ACCCAGGCCA AGGACCCCGG GGAGGCCCTT
 TAGCTCATAC GGAATGGACA GCGACCTCC CATGGCAATT TTTAGTITGT TGGATTACAT AGTCAACGAG CCTCTCCAA
 ACTGCCCACT GGAGTNTTCA NTCTGGAATT TCAAGATTTT NTGAATAAAT GCTTAATAAA AAACCCCGC AGAGAGAGCA
 GNTTTTNAAG CAACTCATGG TTCTATGCTT TTATCAAGGG GATCTNGATG CTGAGGAAGT NNGATTTTTT CAAGGTTGNN
 TCTGCTNCAC CATNGGGCTT TAACCAGNCC CGNACAACC AACCCATGNN TGNITGNGTT TAAGNGTTTT

SEQ ID NO:1870: (Length of Sequence = 344 Nucleotides)

AGAGATTAGA TTTGTTAAAC ATCTAGGTTA AAATGGTTAA AAGGATTTTC ATACAATTTT AGGCACTATA CACGTTGTTT
 ACAACAGCAT TGGTACTTGG ATATGGGGAA AGATAAATCC GACATTTTAA TATCTTGATC AATTITGTGAC ATTCAAATA
 ATTCCATTTA AGAAACATTA ATCAAACTT AAAGAGACAT ACCACTAAGT ATCCACACA GTATACTGAA AATAAATATA
 GNAATACAAC CAGAAGTCTA CAGNTACCA CAGTAGACAG ACTGGTGAAG NCCCAGCTTT TCATGGGCAG TNAAGGGCTC
 TGGGCTAGAT TTGGGTGTCA ACTG

SEQ ID NO:1871: (Length of Sequence = 278 Nucleotides)

GGATTTATTG TCATTCTCC AAGGTCAGCA GGGGAAGGG ACACCAGCA CACTTCACCA CAGGCATAGG TGGCACTGAG
 CCACCTGGCA CTATCTCCAC GTGCTCCACA CGGAGGGGTG CTTCTCACT GGCAGCAGCT GCATTCTCT GCTTCTGCCT

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CAGCTGCCTC TCCGCCCTTG CACACACAGT CCTTGGCACA CTCTCTACAC TNOGCAGGCA GCAGGAGCAG CAGCTCTTCT
TGCAGGAGGT GCATTTCAT CCTCGCACT TGCAGGAG

SEQ ID NO:1872: (Length of Sequence = 271 Nucleotides)

CTTGCCATCT TCACAGCCAG AAGCTTCCTT GCTTCATGCG CAGACCCTCG TGACTCCCTT TCCCTTATAA GGGCCCCCAT
GATTACTCAG GGGCCACCTC AACCATCCAC GGTCACTTCC CCACCACGAA ATCTGAACT GAAGCACAGG CGCCGGGTCC
CTTTTGCCAC GCAAGGTAAC ACTTTCCAC GTCTGGGGT TCCAAACCTG CACATCTCTG GGGGCTGTTA TTNCACCCAC
CGTCATCAGT GAGGCGCCTT NAGGAGGGGC T

SEQ ID NO:1873: (Length of Sequence = 332 Nucleotides)

CAGGTATAG TGCAGTGGCG CAATCTGGC CCACCACAGT CTCGACCTCA TGGGCTCAAG TGATCCTCCC ACCTCAGCCT
CCCAAGTAGC TGGGACTACA GGCATCCTCC ACCATGCCCC GCCAATTTT TGCATTTTTC ATAGAGAAGG GGCTTCACCA
TGCTGCCAG ACTGCTCTG AACTCCGGG CTCAAGCCAT GGAATTGCTT TGGCCTCCA AAGTGTTAGG ATCAGACCG
CGAGCCCTG GACCCGCGCT ATAGTTTTG TTTCGCTTG TTTTGTGTTT TTGAGATGGA GTCTCACCTC GTCANCCAGA
TGGGAGTGCA GC

SEQ ID NO:1874: (Length of Sequence = 317 Nucleotides)

CTCTCCACCT CAACCTCCAG CCCACCTCCA GGCTGGGGAA GGGGCTGAGT CTCCCCCTCC CATACTACC TCACCGGCC
CCCAGCCAC AGAGAGGCTG AGGGAGGGGC TCTGGTCTCT CCTCCATCCC TGTACCTGCT TCTTCCCTCT TCATTTCAC
CTCTAGATC TTTCCCCCA CCCAGCCAC CTCAGGCTG GGAAGGTGA GGAATCTTT CCTCCACAC CCTACCCAC
CTCACCTGCA GCCTGTGCCC TGGGCCAGGA GAGGCATGG TGAACAACA GACCCACAAC CCGGACCTC GCAGGCT

SEQ ID NO:1875: (Length of Sequence = 185 Nucleotides)

GTGTCCACC CACCTCGGCC TCCCAAAGTG CTGGGATTCC TGGCGTGAGC ACGCTGCGCC TGGACAGTCT GCCCCTAGAT
GAGTGGCCA GCACGTACA GCTACTGCTT GCCCCGACCC CAGCCCTGA TTCTACCGCC GCTCGGCAGG GGGACGGCCA
GGGAGAGGTC CAGCCGCGG GCAAG

SEQ ID NO:1876: (Length of Sequence = 214 Nucleotides)

CCTGGGGACA AAATAGTCAG CAAATTCTCA AGGGGAGAAA ATAAAGTACT TCCCTTCTGT TAAAAAAG TCAAGAGACA
AATCTTTCCT CCCCATTCT CACTAATAGT TATTGAAGGG GAAAAAATA AACCCACAA CTTTTTAAAC TAAAGATAAA
AACAAATGAA AATGAATAAG ATCAAAGAA TGCTTTTGT TACTCTGCT TATG

SEQ ID NO:1877: (Length of Sequence = 340 Nucleotides)

TTTGAAGAAG AAGAAGTTGA ATTTATCAGT GTGCCGTGCC CAGAGTTTGC AGATAGTGAT CCTGCCAACA TTGTTTCATGA
CTTTAACAAG AAACCTACAG CCAATTAGA TCTTAACCTG GNTAAGTGCT ATGTGATCCC TCTGAACACT TCCATTGTTA
TGCCACCCAG AAACCTACTG GAGTTACTTA TTAACATCAA GGCTGGAACC TATTGCTCT AGTCCTATCT GATTTCATGAG
CACATGGTTA TTAATGATCG CATTGAAAAC ATTGATCACC TGGGTTTCTT TATTATCGA CTGTGTCATG ACAAGGAAAC
TTACAACTG CAACGGGAGG

SEQ ID NO:1878: (Length of Sequence = 326 Nucleotides)

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GAAAAACAAG GAAAATAGGC AACAACTGC AATGGACACT TTTCTCTACA GAACCTTTTC AACCTGAAT TGAATTGTTT
CCTATTCAAT TNCATAATAA AAGTTACTTT GCAAGATATA AGGAAATACT GTCCCAAAGA TTTTCACTAG TCATTCAATC
CATTAATAGG ATTGAAAAG GCATCATTAC ACAGGGTTGA AAATACTCTG GAATGAGACT GCTTTACAGT CAGAATGCCT
GAGTTTTGAG GCACGTGTAC TTCTAAACAT CTCTAAGTTT CTATTNCTC ATCTAAAGGA GTAATATTAC TTTCTTAA
AGGTG

SEQ ID NO:1879: (Length of Sequence = 222 Nucleotides)

GAAAGGGAGA GGTTCAGCG AGCCAAGATC GTGCCACTGC ACTCCACCT GGGTGACAGG GCAAGACTCC ATCTTAAAAA
AGAAAACCCA GGAGTCTTTG GTTAATGTAG TGCAGGACTC TGAGCTCCCG GGAGGACCCT TCCCTCCAG ATGAAGTGTG
ATGGACCAGC CCAAAGGAGG GGAGAGAGCA CTINGGCCAT AGTGGTGGTG GATCTTTCTA AC

SEQ ID NO:1880: (Length of Sequence = 244 Nucleotides)

GACATGAATG GTATCCTCCT GGGGTATGAG ATCGCTACT GGAAGCTGG GGACAAAGAA GCAGCTGCGG ACCGAGTGAG
GACAGCAGGG CTGGACACCA GTGCCCGAGT CAGCGGCCTG CATCCCAACA CCAAGTACCA TGTGACCGTG AGGGCCTACA
ACCGGGCTGG CACINGGCCT GCCAGCCCTT CTGCCAACGN CAGGACCATG TAAGCCCCCT CCGCGCGAC CTCCTGGCA
ACAT

SEQ ID NO:1881: (Length of Sequence = 156 Nucleotides)

GTACAGGGGA GAGTTGAGCT GTGACAAAGT CAAACACAGG CCTTGGCCAC CCACAGGAGC TCTGCAGCTG GGGTGGTCTT
GAAAGTTGTC TCAGTGAAGG CAAGGTGCTG AGCTTATTAC CCCAGCAGTC ATTGTATTTA GGCTCCGTGT GGTACC

SEQ ID NO:1882: (Length of Sequence = 210 Nucleotides)

TTTTTTTGA AACGAAGTCT CAGTCTGTCA CCCAGGCTGG AGTGCAGTGG CACGATCCCG GCTCACTGCA ACCTCTGTNT
CCCAGGCTCA AGCTAGTCTC CTGCCTCAGC TGCCCGAGCA GACGGGACTA CAGGCACCCC CACCAGCCCC GGCCAATCTC
CAAATGGTTC TTTTTTCCG GAGTAGTAAG TTACAATATG GGAGATTATT

SEQ ID NO:1883: (Length of Sequence = 214 Nucleotides)

GTGATGAATA CATCCAGTTT TCCAACCACA TTCCACCAGG TGGGTGTTTG GCTGTGGGAC GCATTATGTA ATCTTCGTTG
CCAGGAAATT TACCTTCTTA ATTACATTTT GCAAATGTTT ATTTGAAGCC GCCTTCTTGG AGCTCACAGT AACTAGGAGG
TGGCTGCTGG AAGCCCCAGG GCACCGTGGG AGGGACAGGG GAACGTCCCA GACC

SEQ ID NO:1884: (Length of Sequence = 211 Nucleotides)

ATCTTTCGCT CTATGTGCCA TCACCTGGAC ACTCTAGGTA ATACCCCTG TTGGGCAGGG GTGAGCTCCC AAGGCCTCAG
GCAACCCAGC TCCCATGACT TTGCTGGGCT CAGCCCAT AACTGTCTC ACAGGATAGA GTTGATACCT GGTGCTTACA
GCTTTCCTGG GCCAGTGTG CATGCTGCCA GTGGCTGCAG CAGCAGCCCC A

SEQ ID NO:1885: (Length of Sequence = 212 Nucleotides)

ATTAGCTGAA TTCGCGTGTG GCGGTTTGGG TAGGCAAAGG AGACATCTTG GAACTGGACA AGGCCCTCCA AGTGTAAGGG
AGTCAACAGA CCACTGGGTG GGCAGCGAGG GGTGCGGTCC AGGTACTCAA ATATTTTCTC TGAGGAGCCC ACAGCCTTCT
GTACTCTGGG GTAGATGGAG AGCAGTACCT CCACAGCCTG GGTGAACCTC AT

SEQ ID NO:1886: (Length of Sequence = 208 Nucleotides)

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CATCCGCATA GTATTTACAT CATGGGTATA GGCAAGTNCCT ACAAATCAGG NCTTINCCTT GGGGATGGAT GTTTGGAGCT
AGTTTACCAG CACACCAAGT GGTAAAAGTG AACAAATACT TTTTGTATCC CACAGAATCT TAAAAAATAC TTTACTTCGA
AAATGTCTCT ACTAAGTAAT CATATATATA TATATATNTG TATATATA

SEQ ID NO:1887: (Length of Sequence = 332 Nucleotides)

CTCGTTCACT GCCCGCCAAC TCCCATTCOA ACTTCCTTTT TACACTGGAT GTTCTATCA CATCCTGAGG ACCACTAACC
CACCAGCAAG TCTCCCCCTG ACACACATTC ACGTAGGTCC ATACCCCTCA GAGTCCTAAA GGGTTAATGA GAAGCCACCT
CAGCTTTGGT GAATGGAGCC CCAGCCCCAA ATCCCTCCC CTGCAAATA TGGGACAAGT AGGGAGAGTC TGATGGAGGC
ACCAGGACAA CTACAACAAC CTCTTACCCC TCAGCTATAG ACACCTAGAT CAGGACAGAG GGATGCATAT GCCTCTCCA
CCTTAACACC AA

SEQ ID NO:1888: (Length of Sequence = 224 Nucleotides)

AAGAGCTGAT TGAGGCTGCC AAGAGGAACG ACTTCTGTAA GCTCCAGGAG CTGCACCGAG CTGGGGGCGA CCTCATGCAC
CGAGACGAGC AGAGTCGCAC GCTCCTGCAC CACGCAGTCA GCACTGGCAG CAAGGATGTG GTCCGCTACC TGCTGGACCA
CGCCCCCCA GAGATCCTTG ATGCGGTGGA GGAAAACGGG GAGACCTGTT TNCACCAAGC AGCG

SEQ ID NO:1889: (Length of Sequence = 261 Nucleotides)

CACTTTACTG AGTCACACCC AGCTGTAAAC ATGTCACCGT GAGANTCCCG CCCCCACCC CCAGGCCGCA CAGTCCGCGA
TGAAATGACA GGGGAGCGGG GAGGGTCGCC GGAGCGGGTG CCAAGCAAGG CAGGGCAGGC AAGTGCAGCA GCGCTGAGT
TTCCGGGAGG AAGCCCGGAG GAGGTGGGT GGGGCAGGAG CGNGGGCTGG GGACCCGCC GAAGACCAGG GGGCCAGGA
AGCCTCTTTT CGAAGGNC T

SEQ ID NO:1890: (Length of Sequence = 312 Nucleotides)

CTGCGAGACT ACGAGACGGT GGTCAAGGTG AAGCCCCATG ACAAGGATGC CAAATGAAA TACCAGGAGT GCAACAAGAT
CGTGAAGCAG AAGGCCTTTG AGCGGGCCAT CGCGGGCGAC GAGCACAAGC GCTCCGTGGT GGACTCGCTG GACATCGAGA
GCATGACCAT TGAGGATGAG TACAGCGGAC CCAAGCTTGA AGACGGCAA GTGACAATCA GTTTCATGAA GGAGCTCATG
CAGTGGTACA AGNCCAGAA GAAACTGCAC CGGAAATGTG CCTACCAGAC AGAGAAGATT ACAGTATGTG GG

SEQ ID NO:1891: (Length of Sequence = 298 Nucleotides)

CCTAAAGGCC AGGCAAGGCT GATTCTCCAC TTCCACATGA GACAGAGCTG ATTCTGCAGG GAAACGGCTG GGGAGGCTCC
ACCTCTTTCC TCCCCACAAC CATTTACTGG GAAGTGTGT ATACTTGGCA GTNTGGGAGG AAGGTACTTG GAAGACCCTG
CCAGCCATCT CCCACCCAGA CTCTTTCTCA CCAGCACAGT CTTCAAGGCT TGGTGGGAAA GGTGTGTGGG AGTGGAGAAA
GACAAAGGCG CCTTCTTNA GAGAGGAGCT GCAGAGAGGG GCAAAGGGT TCCTAGCC

SEQ ID NO:1892: (Length of Sequence = 333 Nucleotides)

CTCAAGGTC ATCCAGTCG TCGCTAATTA TGCAAGGGT GACCTGGACA TATCTTACAT CACATCCAGA ATTGCAGTGA
TGTCATTCCC AGCAGAAGGT GTGGAGTCAG CGCTCAAAA CAACATCGAA GATTGCGGTT GTTCTGGAC TTCAAGCACC
CAGGGCACTA TCCGCTCTAC AACCTGTCCC CGAGGACCTA CCGGCCCTCC AGGTCCACA ACCGGGTCTC CGAGTGTGGC
TGGCAGCAC GCGGGGCCCC ACACCTGCAC ACCCTGTACA ACATCTGCAG GAACATGCAC GNCCTGGCTC GGCAGGACCA
CAAGAACGTC TTC

SEQ ID NO:1893: (Length of Sequence = 487 Nucleotides)

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CCAGATAGAG TTTCIGTTTT TNAGITTTTAC ACGTGCCACA TCAGGGAAAG TTAGGTTATG ATTAAAGCAA GAGATGATAG
 ATGAACAAAC AAAGAAACAA CAACAAAAG CCCATGCAAG AGGCAGGAAA AGAGGCTGAC TGGTTAAAGA ACAGGCCAGA
 TTGGACAATA CTGATCAAGA GGGGTTTACA TTTGAAAGAA CAGTGCTTTA TTCCTCTACT GACTAGAACT AAAGGGATTT
 TGGCCGGGTA CGGTGGCTCA CACCTGTAAT CCCAACACTC TGGGAAGCCA AGGTGGGCGG GTCACGAGGT CAGGAGTTCC
 AGACCAGCCT NACCAACATG GGTGAAACCC CATCTCTACC CAAATACAA AAACTTTINC CGAGCGTGGG CCGGCGTTG
 GTTGGCTCAT ACATTNATN CCCCNCITTT NGGGGGCCCC NCCGGGCGGT TCACCTTAGG GTCAAAGGGT NCGGGGNCCT
 TCTTGGC

SEQ ID NO:1894: (Length of Sequence = 283 Nucleotides)

GGTGGTGAAG TGGGCTCTGG AGAAGCTGGA GCTGACCAAG TACGAGACA AGCCGGCTGG CACCTACAGC GGCGGCAACA
 AGCGGAAGCT CTCCACGGCC ATCGCCCTCA TTGGGTACCC AGCCTTCATC TTCCTGGACG AGCCCAACCAC AGGCATGGAC
 CCCAAGGCCG GCGGCTTCTT CTGGAACCTC ATCCTCGACC TCATCAAGAC AGGGCGTTCA GTGGTGCTGA CATCACACAG
 CATGGAGGAG TCGGAGGCGC TGTGCACGCG GCTGGCCATC ATG

SEQ ID NO:1895: (Length of Sequence = 234 Nucleotides)

ATGTCCATTA GCCTCATTIG TCATCTGAGG GAGCTGGTGA GAACAGCCTT GGCGTGAAGG CATCCCTGGT AGAAGTCGGG
 GGAGATAGAT AGTCACAGTT CCCAGTTGG TGGAAATNGG ATNGGAGTAG GGAGAGGCTN GAACAGACCC TTCCCATTC
 ACCTGGNGAA TTTTCTCCTC CCACTGCCCT AAACACTTTA TTTCATCAC AGGGGAGAAA TNCCTGCTGAG AAGG

SEQ ID NO:1896: (Length of Sequence = 285 Nucleotides)

CTTTAAAGTG TAATAATATG ATTTTAAAGG AGAAATTTAT TACTGTGTC AAAGGTCTTT TTAAACCACT TTAGATTTCA
 AGAAAAATA AATGAAATC ATCGAAATC CATTTCACAT TAATGGTCTA AAAATAAACC AAAGGACATT ATGTGTGCAT
 GTGTGTATAA GTGCACACAG AAATATATAT NCATATGNG ACTATATACA TGTGTGTATA TATGTGTATA TATACATNCA
 CTTGTATAAA TGTATATACA CATATACCTA TAATGTGTGT ATGTG

SEQ ID NO:1897: (Length of Sequence = 288 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTINA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTCAC AATATACITG
 CAGAACTGTG CCTGGSGSAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTGAAG AAAGGAGTAA AAWCTCCCC
 AAACCTTAAA GGCATCCTTT TCGTAGTGTG TGTCCAYAG GTATGGCTGC TGAGCACCAG GGGCTGCTCA CCATGNTCCC
 AAGAAGCAGA GTCANGGAGG CAGACAGCAG GGTATTATTAA GGTGCACA

SEQ ID NO:1898: (Length of Sequence = 398 Nucleotides)

CAGAAGTAAA AGATTTTAT TGTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
 TTTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
 GATCAGTAAA AACATGCAA AGTGAGAAGG AAAGGGAAAA AGGTGCATTC CCTAAGCTG AGGGGGATGG AATTTTCAGAA
 CAGAGGAGGC AGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCCTCTGT GTTATCTTTC AAAACAGTTC CAAGCTTTGA
 GAAAGCAATG AGCTCCACCT ACTCAGCAGA CCCACGGGTC GTCCCCCTGG ACGTGACTTA GCAGTGACCT TGCTGCC

SEQ ID NO:1899: (Length of Sequence = 227 Nucleotides)

CATGGGGACC CGGGTTTATT TTATTAGGAA GGAAACAACC AAGCACCCCA TGTTCCTGCC CGMACTCCC GGGGGGAACA
 TGCCAAAMAG CCGGGGATCG AACCAGCCC ACCTGTCTGT GRGGKCCCTT CCTTCTCAGG CCACAGAAAT AAACCGTGT

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ACTTYYTATT GTTAGCACAA CATTACCAGA AAACGKTAAC GGCAGCCAAG CAGGACAGAC AGTTAAG

SEQ ID NO:1900: (Length of Sequence = 405 Nucleotides)

GGGATGCACT GGGTTTCACA TCAAGTCTT GAGAGGWTCC CGAACGACTT CTCTGCCCCA GGGGAGTCCG AGCCACAGTT
TTCTGATCAA CTGATGATTC TRACCGCTT CTTTCTCTCT GGGGGGTAAG ACACTTGTG TTGAGCTCTG GGGATGATGG
AGAAOACTC CTCGGCCTAG GAGTCTGAGG CAAAGCTTTC GGTTCGCGG AAGAATCACA TTCGCTTCTC CCTCTAGATG
GCGTTCAGG TATATCTTTC ATTCCAGGAG AGGACCCAGA CAGGCTGTGC CTCGAGGGAG TOCCAGACCC ATCTCTAAGT
CCTGGAGAAG ACCCAGACCT GCTTCTCCTT GATGGAGTTC TGGTAAACCA TCTTTCATTT CAGGAGAAGA TGCAGACTAC
TTCCT

SEQ ID NO:1901: (Length of Sequence = 244 Nucleotides)

ATRATTCATA TGCTAGTTTA TTTATCTTAT TATTGAGAGA TAATTTCAATG ATGACAGTTA TCAATAATCA ATTACAATAT
CAAGAAATTC AAAGAACAAA ATCTTGACAGA GACTATGCTT TTGTATTTGG ATTTAAAAAG TATGTGATCT CATTITCACA
TACCAAGCTG AGAGGCCATT TAGACTATCT CTTTGCTAAT TTTTGCTTAC TGCTGTAGGG AAGAAGATTT CCAATGAMCT
TTAG

SEQ ID NO:1902: (Length of Sequence = 329 Nucleotides)

TAAAAATAAA AAAATAAATA AAATTTTAAA AATAATAAAA ATTCACATATA TACACATATA AAGAAATAAA AAGAAGTCTC
AGTTGCAGCT ATTTGTCAAA ATTAATATCC ATTTCTWTTW ATATACGGTG AATAATGCGC AATTATAGAT CTGGATTTTA
AACCCTTAA TGAAGCGGCA ACACCAGGTG TTTTAAGGTG TTGGCATCTC TCGCTGATTT GGCTGTTCCT AATGTTTACA
TTATTTAATC TTGCAAAAAT GGTTCGATG CACTTGGGAT GTGAAATGCT GTCCCGTTTT ATTTTPTTAA TGTGTATATC
CTTGGGTGT

SEQ ID NO:1903: (Length of Sequence = 421 Nucleotides)

ATTTTATATT CCACAGTCAG GTGGGTCTGC GATASTCATT TAATGTTAAA CGCCATCAGG GGCTCTCTCT CCCGTTTCTG
CCAGGGGCTT TTCTGTCTT CTCTGTGTC ATCATCATCA TCGTCTCTCT CTTCCTCTGT GGCAGATCTT CTCTGGTGGG
GGCTGTCTGC TGGCTCCGAG GGGGCATCCG CAGTCCGTCT GGTCTCTCTC TCCTGCAGGC TGGGCAGCTG GCCACCACTT
CTCCGACTCG ACCCTCCAA CAAGCATCGC AGGGCACTGT CCTCGGGGGT ACAGACCGTG GTCCACATT CGCTACCACT
CTGTTCACG NCATCCAGGG TACACGAGCT GGTGTAGGC CGTGTCTCT TGGGGCTCGA GGCTCTTCTCT GCTGGTCTC
TTGGACGGGC GGTAAATTC T

SEQ ID NO:1904: (Length of Sequence = 423 Nucleotides)

GTCTGTGCGC CCGTCTGAA GTGACGGTGC AGCCAGGCTG CTCCCTGCCC AGCAACCCCG AAGCCATTGT GCTGGACGTC
GACTACAAGT NTGGGACCCC GATGCAGAGT GCTGCAAAAG CCCCATATCT GCCCAAGTTC AAGGTGAAGC GATGTGGAGT
TAGTGAACCTT GAAAAAGAAG GTCTGCGGTG CCGCTCAGAC TCTGAGGATG AGTGACGAC GCAGGAGGCC GACGGCAGAA
GATCTCTGG CAGGCAGCCA TCTTCAAACT GGGAGACGAC TTCCGGCAGG ACATGCTGGC CCTGCAGATC ATCGACCTCT
TTCAAGAACA TCTTCCAGCT TGTGCGCCTG GACCTCTTTG TTTTCCCTA CCGCGTGGTG GCCACTGCCC CTGGGTTCGG
GGTGATCGAG TGCATCCCG ACT

SEQ ID NO:1905: (Length of Sequence = 370 Nucleotides)

CAGAACCAGA ACATTTTAC TCTTTGGGCT CTGGGAAGGG CCAGGCAGAG TGCAAGGTGT CCACAGGAGG GGTAAGCAGA
GAGGAGCTAC AGGGGGCTGC AGTCCTAGTA CCTGTGTGG GAGGACTGAG GGATGGTGAG TTTGGTCTCC GGAGGGGGCT

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CCAGTCCTGG TGGCCAGTTC TNACANCTGC CCCTCCTGAG TTCACACTGG AGTCCTTGCA GTCCTGAAAC CACAAGGCCT
 NCCTGAACCC TGGGTGAGGA GAGAAANACT TGGGGAGGGG AAAGGACGGC GTGGGCTACC CATKACGGCT CTGAGTTCTT
 CCTGGGGCTT GTGTCTTTTC CTTGGCAGAA GAGGGCACAG CCAAAGGCAA

SEQ ID NO:1906: (Length of Sequence = 415 Nucleotides)

GTCACACCTT CATTCAGTGA GGAAGAAATG CTTTCACTCT GGAATTCAC AGCATCCCAA TCTGACGTTG TACCGTGTG
 ACACTGTTTG TGAGCCCCAA GTTTCACGA GCTCTTGCAA GTAAACGGAC ATTGTCACA TTTGTAGACA GCTGTCTTTC
 CAGATAAGTG GATGTTTTCT ATGTGACGAG AGATGCTACG TCGATGCATG GTGAGGAAAG GACAAAAGGG GCACTGGAAC
 CTATTATGA ATCTNCTAAA TGGAATCCCC TTGGTCTCCA ATAATTGTT GCCATCTGAG CCCATCAGCT GCTCTGCAGA
 CAGGCCTGAT GTCTGGTGAT CCACAGCACT TAAACCATTG TCACTGTCT ATTTCATTTA ACTCTTCATC AGAACTAGAG
 TCATTAGCAT GCTGT

SEQ ID NO:1907: (Length of Sequence = 214 Nucleotides)

TGAAATCCTG TACGTGTCAA CTTTGAAATG TATGTGTGTT GGTGGGTGG TGGTGATGTG ATACGGTTTG GATGTCTGTG
 CCTCCAAAT CTCATGTGA ACTATAATCC CCAATGTTCC AGTTGACGTG GTGTTTGGTT CCATGGCGGG GTACCCTAGG
 GATTTCATG TTTCTTCAC TTCCCTTGC ATCTGAGATC CTGCTGAAA CCAC

SEQ ID NO:1908: (Length of Sequence = 410 Nucleotides)

CAGGAGAGCT GGGCAGATGT CCCAAGCCTG TNAGTGGCCC TCCCTGGTGC ACTGTCCCCG AAACCCCTGC TTGGGAAGGG
 AAGCTGTGG GTGGGCTAGG ACTGACCCCT GTGGTGTGTT TTGGGTGGT GGCTGGAAAC AGCCCTCTCC CACGTGGCAG
 AGGCTCAGCC TGGCTCCCTT CCCTGGAGCG GCAGGGCGTG ACGGCCACAG GGTCTGCCCG CTGCACGTTG TGCCAAGGTG
 GTGGTGGCG GCGGGTAGGG GTGTGGGGC CGTCTTCTC CTGTNTCTTT CCTTTCACCC TAGCCTGACT GGAAGCAGAA
 AATGACCAA TCAGTATTTT TTTTAATGAA ATATTATTGC TGGAGGCGTN CCAGGCAAAG CCTGGCTGTA GTAGCGAGTG
 ATCTGCGGGG

SEQ ID NO:1909: (Length of Sequence = 339 Nucleotides)

AAAATTAAT CCAATTTTA TTAAGGATTT CAGGTACAT ACTTCAAATT TCTAGAATGG AATGGAATCA TTTTGAACT
 GGAAAAATGG CATAAACT GAGTCCCTT AAAACTTCAA TTTTATAAAG AAAATCTTC TGCAAACCAC ATCCCTTTA
 TGTAACAAGA CTAGGTATTA TCTACACCTT CACTTTGGCA ATAGCTATTT CCTAAAGAAT GAAAAAGATG ATTTTNTAC
 TTCAGTTTAT TAAAAATGGG ATTCTATCTT TGAAGTTCAG AAAAGCTGC ATTTGATGA ACTATGGGTT AAAAAAAAAA
 GCACATAGTG TCTAATCAA

SEQ ID NO:1910: (Length of Sequence = 439 Nucleotides)

GGCCAGGGA GCACCAATCA CAGCAGGGC TCTGGCCAG GTGTGGCAG CCCAGGCCTC CATTGCTAA TGATTAATAC
 ACTGTTTGGG CTGGCCAGTT TTTCAATCAT GCAGCTTGAC GATTGAGCAC AGTCAGGCTT TTGTATTAAA AATGAAAAAT
 GAAAAACAA ATTCAAAACC TATTCAAATG GGTCTAGTT CAATTTGTTT AGTATAAATT GTCATAGCTG GTTTACTGAA
 AACAAACACA TTTAAAATTG GTTTACCTCA GATGACGTG CAGAAAAATG GGTGAAGGAT AAACCGTTGA GACGTGGCCC
 CACTGGTAGG ATGGTCTCT TGTACTTCGT GTGCTCCGAC CCATGGTGAC GATGACACAC CCTGGTGGG ATGCCCGTGT
 ATGTTGGTTT AGCGTTGTCT GCATTGTCTA GGAGTGAAC

SEQ ID NO:1911: (Length of Sequence = 342 Nucleotides)

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AATGCACCCA TTGGCTGCC AAGAGCTTCT CACTGCCTTG CTAGCAGCCT GCCACTGTC CTTGGCAAAT TGAAACCACC
 CACGCAACA CTCAAAACCC CAATCTCCTT GCTAATAAGA TACAACCACT TAACACCGTG AAAAATGCAC ATCTCCAGCC
 TTCATTTCAA AAAAGAGCTC TGTACTAAAT GCAATATGCT TTAAAGGGG GTTTTACAGG GACCAATCTC AATGCAAAGA
 CCAGTACCAG ATGTCGTAGT TTGGTTTACA GGTTTATAAT TAGACACAAA ATCACTCCA CACTGGAGTT TTAATTTCAA
 GCTGGAGTTA GCATTAGTTC TA

SEQ ID NO:1912: (Length of Sequence = 380 Nucleotides)

TCATGCTTTT AATACAACT TAAAAAATC TGGAACATA GAAACTGTAC AGATTGTATC AATCTTTTTC TTTTGTFTTT
 AACTAAAAT CTCTAAACAC ACCAATGTCC CATTCAAAA TATTCACAA CATTCGTGAT ACAAACCCCT TGATTGTATT
 CCTCTTCAC TAAAGAAAA AGTTCAATGAC CTGCTCCCC GGGCTCCTCT CCAGGCTTGC CTCAATGCCC CCTTCCCATC
 CCTAGGGAGA AACTAGAGA ATCTATAACT CACTGCATTG AGAAAAACAC ATCATTCTGG ACTAACAGTT TTCCATTCCT
 CAGANGNTA ATCCACCTTT TGGATTGTIT CTGGGGGAAA GAGGGGTAGA TAGAGGGATG

SEQ ID NO:1913: (Length of Sequence = 361 Nucleotides)

GAGACAGAT TTGCTGTT GCCCAGGCTG GAGTGCAATG GGTGATCTC AGCTCACCAC AACCTCCACC TCCGGGGTTC
 AAGCCATTCT CTGCTTCOG ACTCCGAGT AGCTGAGATT ACAGGCATGT GCCACCACGC CCAGCTAAGG CTTTGTATTT
 TNAGCAGAGA TGGGGTTTCA CCATGTGGC CCGGCTGGTC TCAAACTCCT GACATCATAT GATCCCCCG NCTCAGCCTC
 CCCAAGTGCT GGGATTACCG GTGTGAGCCA CTGCTCGGG CTCTCCAGTA CATTTTITAGG GGGACGATCA ATGAGGATTC
 TCTTCTCTGA GTTACTGCAT GTGTACAGT TTATAATCCT T

SEQ ID NO:1914: (Length of Sequence = 409 Nucleotides)

GGGGGCCTTA CAACTAGGTA TGGTGATAT TGCCCGACAG ACGGTTGAAT TTCTCTACGA AGAGAATGGT GGCATCCCAA
 GAGACCTTTA TCTTCCACC ATTGAAGACA TTAAAGACGA AGCAAACAAG TTCACAATTG ATAAAGTTTCG AAAAGGTCTC
 ACAGTAGTAA CCCGCTCTCC AGACAGCAAT AATGTAGCCA GCAGTGCTGT TGGAACTGCT CTGCCAAAT TTGCCATCCG
 AGGGATGCTG AAAACCTTTG GGCTTCATGG AGTCGTCTTA GATGTTGATT CAGTGAATGA ACTGGTGCAG GTAGAAACGT
 ACCTCCGACG TGAAGGTGTG CTGGTGGAT ACTTGGTATC CTATTTGACA TGTGGGAAA GGGCCCCCAG CAGGCTACCG
 AARGGACTT

SEQ ID NO:1915: (Length of Sequence = 402 Nucleotides)

ATGGTTTATA GCAGGAATAC TGTTCIGAA TGAATTGGAG GGAAAGTGTG TGTGTATATG TGTGTGTGTG TGTGTGTAG
 TTTTGTGAG GTAGGGGAGA CTATTTTGT GGTTCAGTCA CTCCAATTAT TGCCACAATG CACTTTCCTT CATACTGCC
 CCACCAAAGG TCTTAAAGC CATTTTGGG GCCTATTGCA CTGTGTCTC CTACTGCAA TATTTTCATA TGGGAGGATG
 GTTTCTCTT CATGTAGTC CTGGGAATTG ATTCTAAGGT GATGTTCTTA GCACTTTAAT TCCGTGCAA TTTTGTGGT
 CTCCCCTCT GCCATCTTA ATGGTAAGCT GAAACCTGGG NCTACTGTGG CTCTAGGGG TAAGCCCAA AGGCCAAAA
 AA

SEQ ID NO:1916: (Length of Sequence = 382 Nucleotides)

GAAATGAGAC TTTATTCTGA AATTATTAAA AAGAACAGAG ATGCTCCATT TGGCTGCATG CAGGGGGGGC GGTGGGGGG
 ACAGAGGGGA GGACAGGGG TCAGCCAGGG GGACCGTGT TCTTTCCAC GCAGGACACT GTGCATGGGG CTCTGGGTGC
 ATCTGCCCAT CTGTCTATGG GCCTGTGTGT GTGTAGAGG CCAACACAG AGAGCTCCGT GGGTCTGTGT GTATCCAAGT
 GCTAAAAGGC AGGCTGGCTT TCTGGGCCC ACAGCTGGCG GGCTAGTATC CTGGAAGGTT TCACTTGGTG GCTTGGCCTA

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GGGACCAGCA AGGGCTTGGN GTTGAAGGG GTGGCTCAAG GAAGCCTCTT TCTCCACTCA CA

SEQ ID NO:1917: (Length of Sequence = 375 Nucleotides)

GAGATTAAAA TAAACAACAC AAAATGTATT TAAATGAGAA ATTGAAATAT TAAAAATAAT ATTAGGTGAC ATTAAAACTG
TCATAGAAAT AAACGTGATA TACAACAAAT AAATCAATGA TTGTTAACTT TTTTAGACAG TTTGAATATC AGATTATAAT
GAATAGCATT ATTAGCCAGT AAAAAGAGCA TATAAATTAT TTTAAAATTC CAAATAAAAA TATTTAAAT TTTGAAATTT
TGGACCCAAA ATTATGTCAG TAATTTTCATG AAAGTAGATC TCCAATAGGT CCTATATTCT AGACACTATG AAATGACATC
AGAAACCGTC AATTAAAGTG TACCCACAA GTGATAACTA GCTACCATAC AAGTT

SEQ ID NO:1918: (Length of Sequence = 315 Nucleotides)

AATATACAGT ATGATACACT GATGTGCAGA ATGTGATTAG TTTATTAATC ATATGTGAAA ATATTAGTAG CTACATATGG
CCAGAATAGA TTTTCTCTC TACAAATGTA AGTTAGTGTG GATAGAATTT GTTATGCGAT ATTTGGTTCT TTGGTTTCAG
TCTCAATGCT TTCTTCTGG CATTTTCATTG ACTCTGTAAA TTAACCTCAG CATCAATTTT CTTTTAAAT CAACAGTTAT
TCAAATTGAT CGGAAATTAA ACTTGTATGT AGCTAGTTAT CACTTGGGG GTACACTTTA ATTGACGGGG TTCTG

SEQ ID NO:1919: (Length of Sequence = 285 Nucleotides)

CAGAAGTAAA AGATTTTTAT TGTTCTATAG ACACCTCTGA AAAGAGATCT AATTGAGAAA ATATACAAAG CATTTAAGAG
TTTCATCCCC AGAGACTGAC TGAAGGCGTT ACAGCCCTCC TCTCCAAGGC TCAGGGCTGA GAACGGTTAG CATATCGAAT
GATCAGTAAA AACATGCAAA AGTNGAAGG AAAGGGAAAA AGGTGCATTC CCCTAAGCTG AGGGGGNTGG AATTTTCAGAA
CAGAGGWGGC AGGGTGGACA AGTACCAGGT GGCTCTCCCT TTCCC

SEQ ID NO:1920: (Length of Sequence = 181 Nucleotides)

GCAGGTTTAT TTTTTTATTT ATGTATTTNA ACTGACITAT TTKGTATCC CACTAGAACA ATACATTCAC AATATACTTG
CAGAACTKTG CCTGGSGCAT CAGGGGAGCA GAGAACTTTT CCAGTGAATA GTTTTGAAG AAAGGAGTAA AATCTCCCCC
AAACCTTAAA GGCATCCTTT T

SEQ ID NO:1921: (Length of Sequence = 351 Nucleotides)

AGACGGGGTC TCACCTCTKC GCCCAGGCTG GAGTGCAGTG GCGCAATCTC AGCTCACCGC AACCTCCGCC TCCCAGGTTA
AAACGACTCT MATGCCTCAG GCTCCCGAGC AGCTGGGACC ACAGGCACAT GCCATCATGC CCGGCCAACC TTCTGTACTT
TTWAGTAGAG ACGGGGTTTT ACTGTGCCAC ACAGGCTGGT CCCGAACTCC CGACCTCAGG CGATCAGCTR CCTCAGCCTC
TCAAAGTGCT GGGATCACAG ACGTAAACCA CCATGCGGGG CCCAGTCTT TTCTTCAGAG GGCTCCTNAG CACCCCAAC
CCCAAACCTG AGGCCTGTGA GAGTCTATCC G

SEQ ID NO:1922: (Length of Sequence = 198 Nucleotides)

CCTCATCTGG ACACAGATGA TTTGCCAAAG AAGCGGCTG CCCAGATCTG CAAACCTTGC AACCCAGCAC TCTTGATAT
CTCGCTTAGC GTGTCCACAA CTGGGATGCT AGCTGGGTA AAGATGCTCA CGCAGCCACC AGTGCCCTCTG CCGTCCATAA
GTGCACTGTG ACTTACCCTC TGAGAGTGGC ATCTGCTG

SEQ ID NO:1923: (Length of Sequence = 303 Nucleotides)

TTGATTGCC TATGGTGTGA AATCCTTTGT TATTTTCTA AAAAAATAAA ATTTAAAAAG AAAGAAACT AAGGAAGAAC
AAGANGCTAT TTACCCAAAG TGAGCTTNC A GTTTAGTTT TGCACTGGTG TTTGACTGCC TTTCCGCCCT ATGAAAATCA
AGAAAATCTT TTTTAAAAAT GGAGTCTGTC TATTTTCCAC TCCTTGACGA TAATACAAAT TCAGTTTGTG AGGTTGGATG

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GTCAGTTGGG AGCTGTGATG GATCTGTGG CGGGTTTGG ATGTGTAAAG AATGATATAT ATA

SEQ ID NO:1924: (Length of Sequence = 231 Nucleotides)

GTCTCCCTG ATTCTCAACC TTGCAACCT GCCTTCCTC ACTGCTAGGT CCACGTAGGC TTAACCTTGA TCTTATATGT
AGGACCGGTC TTCACCTTAA GCAAGAGAAA TGTAAGAAAT GNTTCCCAA CTCAGTTGCT GGCCAGCTT TGGCCTCGTG
TTCCCTTCT GAGGACTGAC CTTTGGTATT GCTCTGGAGT CTCATATCCC CTTTGGCCCT AACTGACCAC G

SEQ ID NO:1925: (Length of Sequence = 249 Nucleotides)

GTTTTACTT AACCATCTA TGTGTGGAA TGGGTTTCC ACTTTTTTNT TATAGATAGT GGTGAGTGA ACATTTTAA
ATAGCTTTT NCITCAGTGT AATTATTTCC NTAGAGAAAG TTACCAAGAG TGGTTTTACT AGTTCAGAGG GCTTCAGGAT
TTTATGGCT CTINCTAGCG GTGCTCTATT ATCCINNAGA AGACTTGTAT TACTTCCAGT GTCAAGAAGG TTGCNCTCC
ATGGAATGG

SEQ ID NO:1926: (Length of Sequence = 367 Nucleotides)

TTTTCTCAG CAAGGAACAG TCATGAGAAA GAGAATGCGT TCCTAGGGGG AGGTCTCTAA AATGGCCACT CTGGGACTGT
CTGTCTATA TGGTTGTGGA TAAGGGATGA AATAAACCC GGTCTCCCTT AGCGCTCCCA GGCTATTAG GACGAGGAAA
TTCCCGCTA GTAAATTTT GTCAGACTGG TGTCTGTTC TCAAACCCG TCTCTGATA AGATGTTATC GATGACAATG
CATGCCGAA ACCTCATAG CAATTTAAT TTCGCCCCG GCTCTGCCAT TTGCCCTGTG ATATTTTATT GCCTGTGAA
GTATGTGATC TCTGTGACCA CAACCTATTG GTACANTTC TCCCTT

SEQ ID NO:1927: (Length of Sequence = 231 Nucleotides)

CTTTATTTG GGGCGGATAC CGCAAGGGCC CGCCACGGT CAGGTTAGTG TTCTGCTCTT GCAGAGGCGC KACAGCCTGA
CACCTCCACC TGCCACCGC CGGGGTTAG TGAACATGC AAAGCTCAGA GGGTGGAGGC AGGGGTGGTC GCTGCTGAGA
CCAGGGCTGN GTGCAACAGG AGGGTCAGCA CAGAGCCTGG CTGGTGTCCC TGGGCCCAA GGGGGCTGGG G

SEQ ID NO:1928: (Length of Sequence = 283 Nucleotides)

CCCCTGTCT CCCCTGAGCC CAGGTATGTA ATCTCTACAC ACACTGATCG AGCTGTGNTG TGTGTGTATA TGTGTGTG
TGTGTGNTT AATGTGACAT GCATGTACTG ATCCNGAGAA GCCTTTTATC CAAGAATAGA GCTGGGATCT CAAGCCCACC
CTCCAAGAT CAGACAGCAG AGTGAACCAG GAGGCCACGA CAGGCCTTGT GTCARATGGC AGACGNTGCA GCAGGAAGCA
GAACCACGGG ACGGGGRNCA TGGGATGCTA TKGGCAGCCA GCT

SEQ ID NO:1929: (Length of Sequence = 287 Nucleotides)

CTAGGAAGTA GGGAGAGAAT TTAATAAGTA AGGAGAGAAA GGAAAAAGAA CAAACATGGA ATATGNTCAA GCAAATAACT
TCCAACAGAA ACAAGANGAT ATGTTTTAAA ATATATTTCC CCTGCCCAAT AGTAAACTT ATTTGAGGCA CAATGCATTA
CTGAGGTGAA ATTAAAGTTA CATAAAATTG AAAACATCAC ACTGGANAAC ATTTTATGGG GCTCAACTGA AGGTGGCATA
GTCCAGGAAG GCATTGGAC ATGTATGGGG TGTTTCTTG TIGCCCC

SEQ ID NO:1930: (Length of Sequence = 357 Nucleotides)

ATGGAACACT ACTGCAACAG CTCCACAGAC CGCGGGTTC TGCTCATGTT CCTGGACATC TGTTCAGAGC TGAATAAGCT
CTGCCAGCAC TTGAGGCGG TGCACCTGG CACCCAGTC ACCAACAACC TCCTGGAGAA ATGCAAAACC CTCGTTAGCC
AAAGCAACGA CTTAAGCAG CTCAGAGCAA AATACCTCA TGATGTGGTG AACCACCTCA GCTGTACGA GGCCCGAAC

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CACTACGGCG GCGTGGTCAG CCTCATCCCC CTCATCCTAG ACTTAATGAA AGAATGGWTC GCCCACTTCG AGAAGTTGCC
GCGCAAGGTG CTGCAGGGCA CGCGGGCTGC CTGCACT

SEQ ID NO:1931: (Length of Sequence = 343 Nucleotides)

ATCACTTCCC CACCCACAG GATCTGCCCC AGAGAAAGTC CTCGCTCGTC ACCAGCAAGC TTGCGGGTGG CCAAGTTGAA
TGATGCTGCC CGGGGCTCTG CCAGATCCTG AGACGCTTCC CCTCCTGCCC CCACCGGGT CCTGTGCTGG NTCCTGCCCC
TTCTGCTTT TGCAGCCAGG GGTGAGGAGG TGGCTCGGGT GTGGGCTGGA GAGGCAGAAG CCCTTTCCTG TTGGTGTCCC
AGCACATGGA GCCCCTTGGG CTGAGCACCA AGACCTTGAA CCTTTTGT TTTACCTTTT TTCCAAATAA CAGTTTGGAG
AAATATCAAT GAAATCTGGG GGT

SEQ ID NO:1932: (Length of Sequence = 314 Nucleotides)

TTTCATGGGT TTTTGTITG TTTATTTTGA ATACTGAAAA AGTCCTTTGG GCTCTGTGGG GTTCCCCACG CTCACGGCTC
CTTCTCCCA CACTCACTGC CCTTCTTCCC ACAGCAAATC TATTTCAGG ACGTACTTT TTAATAATGAT TAATGTTGAG
TTCTCACTA GCTCTGCAGA ACTAGAGGAG CTGTTTGCAT CTGCTGTGTC GGATGGAGTT TCTTTTATCT GACACCAGGT
CTCCAACCAC ACTGATGCAA GGCATTTTAT CTACAGAGCT CAACTAGAAC CCCTTTTCA TTAGGCTACT CCAA

SEQ ID NO:1933: (Length of Sequence = 378 Nucleotides)

AGCTTCTGC GGGACCACAG CTATGTGACT GAAGCTGACA TCATCTCTAC CGTTGAGTTC AACCACACGG GAGAGCTGCT
GGCCACAGGT GACAAGGGCG GCGGGTGT CATCTCCAG CGGGAACCAG AGAGTAAAAA TCGCCCCAC AGCCAGGGCG
AATACGACGT GTACAGCACT TTCCAGAGCC ACGAGCCGGA GTTTGACTAT CTCAAGAGCC TGGAGATAGA GGAGAAGATC
AACAGATCA AGTGGCTCCC ACAGCAGAAC GCCGCCACT CACTCCTGTT CCACCAACGA TAAACTATC AAATTATGGA
AGATTACCGA ACGAGATAAA AGGCCCGAAG GATACAACCT GAAGGATGAA GAGGGGAA

SEQ ID NO:1934: (Length of Sequence = 239 Nucleotides)

ATTTAAATTG ACAGCCTTCC ATTTTTCGAG AAAGTACAAA CAGAACTGCT TTAGCACCCA TCGAGCCCCA AACGGGTAAG
GTAAGCCAAG GTTTTAAATGA CCAGCCAGT ATCTAAGCTT CCAAACGGAT GCCAGCCAT CACATACTYA CCTGGGAGG
CTGCTGCACG GGCATTCTCC YGATGCTCAC GGCATTGGK GTAGGTTTCA RGATCGCCTC TTGAGGAAG GACTTCAGG

SEQ ID NO:1935: (Length of Sequence = 319 Nucleotides)

TTAATTTTTT TTTCCATAG AGGAATAGCA TTACAGTCTA ACAATCAGAA TTCTGTTACA CACATACACA GGCATGCCAC
ATGACCCAGT TGAGGTGGTT GTTTCCTTGA GTCTGTTGAC ACGTCACATG GTCAAAGTCT CCTCATTTCA GCCAGTCTCA
ACACAAAACA CCAACAGGG ATGCACTCAA CTGTTGGTT CCATGTGGAA CTAGGTGGCA GGGCGAGAGG GAAAGTAGTA
GAAGGGGGCT ATGGTGTGTC TGCATTAGT CCGCTCACAT AAAGCCACAT GGATCTAGGG GGGGTATCCA AGAGCTCTG

SEQ ID NO:1936: (Length of Sequence = 415 Nucleotides)

CTATTTTAC AAATTATACC TAATGAGTAA AATTAGTGTA AAGTGATAAC ATGCTTCTAC CTGTATTTCT AGTGACCTT
TAGCGGCAGG TATTTATACC TGGTATTTAT GATGCAGTAT ATAAGTGGT AACAATAACT GACAGTATTG TGCTGTCTGT
ACATGTCTGG TCTTTTGAAA CAGATTTTAG TAAGCATTTT CCAGAGGTAA AACTGTGTCC TTATCTAAT TTTATCTCA
GGGCAAAGTA GACAGGGATT ATTCCTTGA ATCTATTTCC AAATTAATAT TTTTCTTTT GGTATTTCTA CACTTTAAGG
CCATTTGGTG CAATTTAGAA AGTGTGGCC TCCCTCCGC TAGCCACATT CAAATTAAC TTCCAAAACC TCAGGAACAG
TACAAGGAAT TTGAA

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SEQ ID NO:1937: (Length of Sequence = 393 Nucleotides)

TCACTCTGT CACCCAGGCT AGAATGCAAT GGCACAATCT CGGCTCACTG CAACCTCCGC CTCCCAGGTT CAAGTGATTC
 TCCTGTCTCA GCCGCCCAAG TAGCTGGGAT TACAAGCACT TACCATCACG CCCAGCTAAT TTTTGTATTT TTAGTAGAGA
 TGGGGTTTCA CCATGTTGGC CAGGCTAGTC TCAAACCTCT GACCAGCGGT GATCCACTCA CCTGGGCCCT CCAAAGTGCT
 GGAATTACAG GCGTGAGCAC CGCGCCACG CTGINTTTCA TGTTAGATCA TAATATGATC TCACCAGATC CTTACTGAAA
 ATGTACCTTA TTACAAGTAG CTAAATTTCC ACATAGAGGG NTAAAAGAT TGGGGAATCA GGTATGACT TTT

SEQ ID NO:1938: (Length of Sequence = 407 Nucleotides)

GGCCTCCCTG TCGGGTGCAA TGCAGTGGCT CAGATCATAG CTCACTGCAG TCTCGAACTC CTGAGCTCAG GCAGTCTACC
 TACCTCANCC TCCCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGCGCCCA GCCAGAACAT CTGTTTTTAC ACCCAGAGAG
 CGCCCTCTGT TAGGACAGAA CCACGGTGCC CAGAGCCAGG AAGCGGCCCT CCTGGCGCCC AGCATCTGAG CTCTACACG
 TGATGGGCGG GCTCAGGAGA GGACAGGGAG TCGTGGTGA AGTTCCACAG CTGGCCCGGT GGGGGGGCCC TTGCACCGCA
 CTTGCCGCT CCTGACTGCC CGATCCCCG CAGCCCTGT GCCGGATTGC ATTTYCTCC TNYCTYCCAG GGTACTGGCC
 CCAGCAA

SEQ ID NO:1939: (Length of Sequence = 412 Nucleotides)

GACATGCCAC CACACCAGTT AATTTTTTGT ATTTTCAGTA GAGATGGGGT CTCACGATGC TGTCTGGGT GGTCTGAAC
 TCCTGAGCTC AGGTGATCCA CACTTCGGCC TACCAAAGTG CTGGGATTAC AGGCGTGAGC ACCGCGCCCG GCTAAAAGAA
 AGGAGATTCT AATGCATGCT ACAACACCGA TGAACCTTGA GGACATGACG TTACGTGAAA TAAGCCAGGA ACAAAGACG
 AAGGCTATAT GAATCCACTC ATATGAAGTA CCTCGATTAG CCAAATCCAT ACAGAAAGTA GAACAGTGGT TGCCGCGGGG
 AGGGGGAAAT GGAAAGCCTA TATTTAATGA GTCCAGAAGC TTTTTTTTGG TTTTGTTTT TAGACGGAGT CTCGCTCTGT
 TTGCCCAGGC TT

SEQ ID NO:1940: (Length of Sequence = 421 Nucleotides)

ATCCATCCCC TTGCCCAGGG CCTCACATGC CGGCTCCCC CAACCGGTCC TTCCCCITGG GCTGCCGGTG CAGCTGTGGG
 CCCAGGCTTT GGCAGGCCCA GCTTCAAGAC AGTGGGACAC AGAAAACACT TTGCAGCATC GCCTCTCCCT CCGCCACACC
 CAGGTCAGCA GAGATGGGCC CCCACCGAG AGATCACAGC TCTGGTACAG GGAGGTGGGC AGGGTTGGAG AGGAATGGAG
 AGACATGTCA CCTCTATAGA AACCGTCCA AAGTACAAGC TAAGCAGGGG GAAGGAGGAG GGCCAGAGAG CAGCCGGAAA
 GAAGAAAAGA GGAACACGGC AGGGGGTTCT KGGGGAGGAG GGCTCACAM CACCCCGCAG ATGAGCGTCT TCACCACGAA
 GGTTTCTTC GAAGTKGCGG T

SEQ ID NO:1941: (Length of Sequence = 377 Nucleotides)

GTCAGCTCTA GAGGCACCT GCATCATGCC CACCAGGGTG ATCCCCCTGG GATNGACCAT CTCGGGATAT GAGGCTCGG
 AGGCTGGGGT TGAGATTGG TCTGAAGAG CTATAGCCA GATGCCACA TTCAAGTGTA AGTCCAGGAA AGGGGCAGGC
 GGCACTGCAC AGGGATTAT CAGTTCCAGA ACCTCACAGT GATAAGAGGC TTTAGAGAGC ATCTAATCGA GACCTTTAAT
 TTTTCGGGA GAGCAGCTGA GGCGTGTGG AAAATTAGTG GAGAGCTGAC AAGTGTCTTG GCTCCTGGCC CAGGGGTCCG
 TGGTCCANCA CGTGTCTGT CAGTTGAAG CAAAGGGCTT GCCCGTGAAT ACCTTCC

SEQ ID NO:1942: (Length of Sequence = 401 Nucleotides)

TGAGAACATT AAGAAGGACA ACAAATTAAC ACATTCTTTA ATAAAATTCC TATAGAAAGC TCAGTCATAG GGCAAATACT
 CATTTCTCTT TCCCATATCA CCGAGGATTG AGAGCTCCCA ATATTCTTTG GAGAATAAGC AGTAGTTTGG CTGGATGTTG
 CCAGGACTCA GAGAGATCAC CCATTTACAC ATTCAAACCA GTAGTTCTTA TTGCACATAT TAACATTACT TGCCCCTAGC

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ACCCTAAATA TATGGTACCT CAACAAATAA CTTAAAGATT TCCGTGTGGC GTGAACCATT TCAATTGAA CTAATATCCT
TGAAAAAAT CACATTATTA CAAGTTTTAA TAAATACAGT AGAGAGCTGG CATTITTTCTA AATACTGGAT TTCAGATCTG
G

SEQ ID NO:1943: (Length of Sequence = 351 Nucleotides)

CAACTCAGGT TAGCAACTGC AGGAAAACCTT TCTTCATTTT CACTGAATTT TAAAGAGAGA ATCCTGTCTC TATTTCTCAG
AGAAACTTAG GTGAAAAGTA AAAGAGAGGC AAAATCTCTT TCCTTCATGA GATACITTTA TTTTATCTC TTTCTCTACT
CATGTGCTTA ACTGGTGAAA TGATTCTGTA GAAATAGATC CTTCTGATTG TGCATCTCAT TTCCTTATGG CAACTACAAC
AGGAGGAATC CAGCTGGAAA TGCCACTAAC CCCACATCCA GCACCTGAGA GAGGAAGCCA GTCGGAGCGC CGTGCTGGGC
TCACTCACTC TGGCCTGCGC ACTGGGGTTG T

SEQ ID NO:1944: (Length of Sequence = 406 Nucleotides)

CCCCAGGCTG TCTCAGAATC TTGATGGGGT GGTCAATTGAG CTCTCTTCC GCCAGAGCAA GATCAGTGAA GTCCTGGGAG
GCACTGGCTA CAACTCGGAC CGGCTCTGCC TGCCCTACAT TCCTCAGCTG ACAGATGAGG ATCGTTTATC CAAGAGGAGG
AGCATTGGAG AGAACATCTT CCCTGAGGAT CCCGAGGATG GTCTGGTGAA GACCAACATG GAGAAGCTGA CCTTCTATGC
CCTCTTAGCT TCAGAAAAAC TTGATCGTAT TGGCGCCTAC CTCTTTGAGA GGCTCATCCG TGACGTGGGT CGNCATCGAT
ATGGGTACGT GTGCATTGCT ATGGAGGCTT TGGACCAGCT GCTCATGGCC TGCCACTGCC AGAGCATCAA CCTCTTCGTG
GAGAGC

SEQ ID NO:1945: (Length of Sequence = 362 Nucleotides)

TCAAATTGTG AATTNAGAA TTCTGCTATG ACAAGTGGA AATTGAGAAA AGACGCAGAG CCACITTTTG TNATCGTGTA
GGTGACAAGG AGTCTCCCAA GTATATCTG CTAATAGGAG TAGCTCTCAA AAGTTAATCT CAATAAAGCC TCCTAAAGTC
TCTGGCAAAG AAAACTGCTG CAATCCCTTG TGCAATTCTC CAGACTAAGC TGTATGGGGG AAGCCTACCT TTTTTCAGCC
CGAAGTTTCA GAGACTGAGG ATGTAAGTGG GGACATGATC ATTGNITCAA AGGTGATTGC TTAAGTATCT TAAAAATGTA
TAGAGCTAAT CTGAGTACCG CTTAAATTCA AGAGCGGTGG CT

SEQ ID NO:1946: (Length of Sequence = 408 Nucleotides)

AACCTCTINAC CCCAGGTTT AAGCAGTCTT CCCACCTCAG CCTCCCGGGT AACTGTTCCT TGTAACCTCTC TCATCATCGA
GGCTATATAT TAATAGACAT GGTATTAAGC CCACACGAAA CATTGAGAAT TAGAATTGGA TTAAGAAGAC GCGTTTGGC
ATCAGCTGA CTACTCTCA TCTCCGTCTT CGGGGAGGGT GATGCCAGCG TGGGACTCTT TGGAAGGCCT ATCAATCACA
GGTGCCTAA AATCAAAAGG TGGGTCAGTA GGTTAGGGAG GNGGCGCGA AAGGAGATGC CAGCGGTGT TAAGAAGGAT
ATGGTCAGAA GAGCTCTTTG TCTCCATCCA CGGGCCTCT GCTCAGCCCG TGTGTCTCG GTGAGTAATT CGGGAGCAGT
GCACGGCT

SEQ ID NO:1947: (Length of Sequence = 426 Nucleotides)

CCATTGACA CTGTACTAT CTGCAACAGT TCTTGCACTA GAGGATGCAC TTCAAAGTGC ACTGCTTTAC TGTCTCACTG
GAATTCTAAA AATCTAAGCT TTATCTTTTT AACATTAAGC TGTGTGGGAA TGTAGCAACC TCCTGGGTGG TGGGGTGGG
GGCATCTTCA ATTATTTAGG TCTCACTGGA AAGTTTGAGA TCAGAGTTTG GTAGGTGGTG TAAGGGGACA ATGAGTAAGG
GAGAGAAAAT ACAGGACTGA CTTGGGGCAA AAAACGCCTG ATAATAATTT GTGAAGCACA TTTTCAAAC CATTATATCC
TTACAAGGAT CCTAAGAGGC GGGTATTATG TCCNGTTTAT ACCTGGAGGC TTAAATTGAA GGAACATCTN CAAGGGCACA
CAGTTTAAAT AATGGCTGAG GTAGGA

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SEQ ID NO:1948: (Length of Sequence = 349 Nucleotides)

TTACAATCTG GCTGGAAACA GATAATTAGA ACATATCAGC AGAAACAGAA CAGTTAAGTG CCAAGCTCTG GTGGAGGTTT
 TAAGTGCCAG AGGTCAGGAT ATATTTTAA GTGCTTCGTC TTCCAAACAT CACTCTTTCA AAACAAAACA CAAAGATCCC
 CAACCAGCAT TTCTGCCCC TGAGGCACCA GCAAGGTATA TAAACGGCT TGCAAAGTTT GATATACGGT CTCCAGCCTG
 GCTTTCTTTA GTCTGGGCTC AAAAGCCAGA AACCTCTGGG GGCCAGAGAA GCGCTCTTTG TTIGCCAAAC AGCATTTCTG
 CACATCCTGT TCTACAGCAC CGTCAGTTT

SEQ ID NO:1949: (Length of Sequence = 378 Nucleotides)

TTCATTCCTG ATTTTATCCC AGCTGTGGG GATATTGATG CATTCTTAAA GGTCCCACGT CCTGATGGAA AGCCTGACAA
 CCTTGGCCTA TTGGTATTGG ATGAACCTTC TACAAAGCAG TCAGACCTTA CGGTGCTCTC ACTCTGGTTA ACAGAGAATT
 CTAAGCAGCA CAACATCACA CAACATATGA AAGTAAAAAG CCTAGAAGAT GCAGAAAAGA ATCCCAAAGC CATTGACAGC
 TGGATTGAGA GCATCTCTGA ATTACACCGT TCTAAGCCCC CTGCGACTGT GCACTACACC AGGGCCATGC CCGACATTGA
 CACGCTGATG CAGGAATGGT NCCCGGAGTT TGAAGAGCTT TTGGGCAAGG TAAGCCTG

SEQ ID NO:1950: (Length of Sequence = 357 Nucleotides)

TCCTAACTT TACGAATGAA AGAAAACAT TCCATCCCTC TCACAAAAG GACATCTTTT AAGCTTTCTT CCCAATCTAA
 CCTCCATGGG ATCTCAGAAA TTCCAATTCT TATAACTCAA ATCCCCACAG TGGTGTAGAT GCATTAATCT CCGGGGACA
 GCAATCTGAG GCAGGCAGGT TCATTAAACA AACATGTTCT GTGCCCTCTG GCAGAGAGGG CAGCAGGACA TGCACTGCCC
 CTGAGCCAAG CTGTGGCATG GGCAAGGACA TCAAGTAGCT GACAACGGTC TGTCCATCTC AGCTGGGGCA GAGGGGCCAG
 TTCAGCCTTG AAACAGCAGT TNGGGAGTGT CTCAGCT

SEQ ID NO:1951: (Length of Sequence = 336 Nucleotides)

CTATCTCCCC AAATCTACGT TTCACCATT GTACTGTAT TTTTITAGCC CAAGCCACCT TTATGTCACT CCTGGAACAT
 AATAACTGCT TTCTCACTCA TCTCCTACAT TTINACCTCT TATAATACAG TCCACCTTGT ACGAGCAAC AAGAGTTATC
 TTTCTGAAAT GCATATTAGA TCATGTCACA TCTCTACTTG AAGCTCTCTA AAGATTCTCT ACTAAAAGCG AAGTCTAAAA
 TTTCCACCCA GACCTATAAG GNCCTTAAAT GATCTTACCT CTCTACCTAC CTCINOGATC TTACCTATCT TCAACCTCGG
 TTCTATTTTC TATATC

SEQ ID NO:1952: (Length of Sequence = 413 Nucleotides)

CAGTATGTAA TTTAATCAGC AAATGCCCCA TTTCATCTC TACCGGAAAG CTTTCAGACG CATTCCCAGA TCAGACAGAG
 GACTAGGGTT AAGGCTGGGA ATGAAACACC AGCTAGTATC CCAGTGAGCT TTCCCAAACA CACATACACA GCAAGTCAGA
 CTAAACAACG TCCAACGTAA GACTCACCTC AAATACTTAG ACCTAAGATT CAGTCCAGG CTCTTTTCTA TACACCAGGT
 AAGTAAGCAC TGGGCATTCC TATCTCAGCC ATTCACTTCA CAGAATCTTT TGGGTGCTTA CTGTGTGCCC AATACTGTGC
 TTAGTGTATC TTGCCCTCAG CAGGAAAAAA AATTAAAAGT GTTAAATGTT ATGAAGGAAC AGATTGGNAT AGGAATCACA
 AGGCATTGAG GTC

SEQ ID NO:1953: (Length of Sequence = 382 Nucleotides)

GTTTCACTCT TGTGCCCCAG GCTAGAATGC AGTGGCGATC TTGGCTCACT GTAACCTCTG CCTCCCGGGT TCAAGTGATT
 CTCTGCTC AGCCTCCCTA GTAGCTGGGA CTATAGGTGC ATGCTGCCAC ACCCAGCTAA TTTTITGTIA TTTTITAGT
 AGACAGGGTT TCGACATATT GGCCAGGCTG GTCCTGAAGT CCTGATCTCA AGTGATCTGC CCACCTAGGT CTCCCAAAGT
 GCTGGGATTG CTGGCCTGAG CCACCGCACC CTGCCTAGAA CATGCTTTTIN AATAGTGTCT CTAACCATCA TGTITAGGGC

CTTAGTGCTT ACCTCTTAAA GAAGGGCTGC TGTGAGGAT TCCNTGAGAT AGTGTGTTGAA AA

SEQ ID NO:1954: (Length of Sequence = 389 Nucleotides)

GGAAAAGCGG GACCCAAACA GTGGTGCTGG GGAAATTTGT TCTGTTCCC TTTGGAAGGC TGAGTGGGTG ATGCAGCACA
GGAACAAGGC TTGGACGTCA GAGGTCTCAT CTTCACGTG ACAAAGCATA AAGGACTTGG GGTGAGCGT GTGINTGGGC
TCAAGTGACC ATGCAAGTNC TGTACCTCC TTCCTAAGAC CCCATCCTTC TCCCAAGTCC TCCACAAGAG CTACCTTCTT
CAAAACAATA ACAGAAACAC ATCAAGNTTN GCGTCACTGA AATTGAAGTT CTGAATTCTG CCGTCACCCC AGCAACAGTG
CCAGTTATGA TGAGACACTT GACCCAGCAC TTGGGTGAT GTCTTTGGCT GTTACCGTGG CACCTAGGT

SEQ ID NO:1955: (Length of Sequence = 277 Nucleotides)

GCCTCTAACT CCACGGCTCA AGTAATCCTC CTGCCTCAGC CTCTAAGTA GCTAGGACTA CAGGTGCACA CCACCACACC
CAGCTAATTT TTTTNCITTT TGATTTTGG TAGAGATAAG GTCTACTAT GTTGCCCAGG CTGGTCTGAA ACTCCTGGCC
TCAAGTGATC TGTCTTAGCC TTCTGAGTAG CTAGAAGTAG TTTAATGAC CNAAGAATT ATGTGTTTAC CNGTGATTTT
ATGTGTTTGT TTAAGACATT CAGAATTTAG AGAAATG

SEQ ID NO:1956: (Length of Sequence = 380 Nucleotides)

GTGTAATGTT CTGAGGGTGG CGAATGCAGG GGCGCGTTCC TCCGCTGTC GATCTGGAAC ATCTTCTCGC CAACAAAGAG
CAGGGTGAAG ATGAGGGCAA GCTGGTAGAC AGCATGGCCC AGGATGTTCT TCATCATGGT CCTGGAGATG AGCGGCTTGT
TGCGGCGGTA CGGTTTCTC AGCAGCAGGG TCTCCGTGGG CGGCTCAGTG GCCAGTGCCA GCNAGGCAA CGTGTCATG
ATGAGGTICA CCCAGAGCAT CTGCACGGCC TTCAGAGGGG AGTCTGCGT GATGCAGGCG CCTNTAAAGC CACAATCAG
GCCACCACGT TGACGGTGAA GCTGGAAGTT CAAGAATTIN GAGATGCTGT CATAGACGTT

SEQ ID NO:1957: (Length of Sequence = 328 Nucleotides)

TGTGATGTTT CTTTTTAGC CTGTTGATGT GGTAATTGT ACTGATTGAT ATTTGAATAT TAACTGGCT TTGCATCCCT
AGAATATAAC TCACCAGGTC ACTGTGTAAT AGGTTGGTGC AAAAGTGCTT GCCATTTTGG ACCATGAATT TTGAATCATT
AAAACAGGC TCAACACAT CTGTATTAAAT CAAAGTAAGA ACCATTACAA TCAACACAAT TTTGCCAACA AGAAATAAGT
TTGTTTACTC CTGTAGCATA AAAATCCGTG CTTTGAGATT CGAGGAAGTT TTGNAAGCA CTTTCTGCAT CCTGCTGGTT
GTGGAAGC

SEQ ID NO:1958: (Length of Sequence = 254 Nucleotides)

CTAGAAAGTA TCTTCTCTTT ATTTAAGTTA AACAAATTTT AAGGATGGTT TCCATCTATA AAATGGACAA AGTACAAGCT
CTGTACAGCA GTTCTTTTAA AAAATCAACT GGAAAAAATA ATTACCAAAC TATATTTTGA ATTTGCAAAA CATACTCACA
GATACCATCA TCTGAGCTTT TATGAGGNCA TAAGAAAGGN CCACCACAGA GAAGACAAGT AACTCGGCA CGCTTTGCTC
GAAGGGCTCT TAGG

SEQ ID NO:1959: (Length of Sequence = 259 Nucleotides)

GTAATACGAG AAAAATCACA ACAGAGTAAT AAAGATATAA AACTTTTACA ATTAACACTC ATCAGTGTGA TAACTAAGC
CCATGTAAAA GTAAAAATCT CTCACAGTTA ACAAACGTCT TTACTTTTAC TAAGAAGGAA CTGAAATTAA AGTCCTTAGT
CACTTTGGAG GTGGCTGCAA AAGCTCACAA CATAGTTGAT CCTTAAATA ATTATGAATG GCAACCAGTG CTGCCTTCT
GTAATCAACC ATGCAACTG

SEQ ID NO:1960: (Length of Sequence = 329 Nucleotides)

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GACTACAGGT GTGCCCCACG ATGCCTGGCT AATTTTTAAG GTTTTTGTAG AGATGGGGTC TTCTATCTT GCACAGACTG
GTGTGGAATT CCTAGCTCAA GCAATTTTCC TGCTCAGCC TCACAAAGTG CTGGTATTAC CGGTGTGAGC CACCGTGCTC
AGCCCACTCA TGTATTTCTA ATTATTGTAT TTGTGAAC TAATATGAAC AACAAAAACA AACAAACAAA CAAAAAGGGT
GGCATTTCG GGCACACAGG GAAGGTGGGA TTGGGGTTC AGCTATTTTC AAATTATATT AAAAGCAGGA TCCCAGTTAG
AGCGCTATC

SEQ ID NO:1961: (Length of Sequence = 282 Nucleotides)

ATCCTCCAC CTCAGCTCC CAAAGTGGTG AGATTACAGG NTCAGCCAT CGCACCCGC CCAATTATTC TTTCTAAACC
ATTTCCTCTT CTGTGTTTAT GCCTTTAAAA ATAAATTA AAAAAAAAAA AAAAAAATC CTAAATTT CTCAGGTGTT
TTCCATATCA TTTATATATC AAGAATATGG CTAATCAGAA GTCACAGCCA GCCCCGAAC TACAACATCA AAACATGCAT
ATTATAGGCT ACACTGAGGG ATTTCTGAGG TTAGCAGATG CA

SEQ ID NO:1962: (Length of Sequence = 328 Nucleotides)

TGCTGGTGTG CTGTCTGCA TCTCAGGAG GCCAAATCAG TCCAGCCTC TCCACCATC TTCCCTGCAG CGATTTCTTC
GAGCTCGAAA CATCTCTGGC GTTGTCTGG CTGACCACTC TGGTGCTTC CATAACAAAT ATTACCAGAG TATTTACGAC
ACTGTGAGA ACATTATGT GAGCTATCCC GAATGGCTGA GCCCTGAAGA GGACCTGAAC TTGTAAACAG ACACTGCCAA
GGCCCTGGCA GATGTGCCA CGGTGCTGG AGTGCTCTG TATGAGCTTG CAGGAGGAAC CAACTTCAGC GACACAGTTC
AGGCTGAT

SEQ ID NO:1963: (Length of Sequence = 277 Nucleotides)

CCAAGAGACA CCCCCGCAC TCTGTGCCC GAGCTGTCTC ATCTGTGATT CACAGTCTGC TCTTTCTGGC TGCTTGTGCT
GAGAAGTAT TTNAACCCC GAGGTTAGAA AGGGAGCTAT TTTTGAGCTG CTTTTGTGA AAAGGCAAAT TTTCTGCTGG
GGACTGGCTT TACCCCGTCT ACCTAAATCA TTTCTTACTG CCTCTGTAA CAGTCGCCTT TTGTGTCTG CTGGNATTTG
TTTGAACACA GTCCACAGGT TCAGTGGTIN CATCTCT

SEQ ID NO:1964: (Length of Sequence = 230 Nucleotides)

CAATGCAACC TTTTAATTC AAGCAGAGTC CCCCTCCCC AGCATGGTCA CACACACAGT GGAAAGGGAT GTCAGGGTCT
GGGAGGAGC AATACCCAGA CCTGGGCAAA AATATAGATA TCATTATATA CACACGTGGA CTGGAAAGAA GTCAAGCTGG
GGGTGTAAGG TAGGGCAGGG GCAGGTGAGG AAAGCAGCTG GGGGGGCCCC AATAAATAC ATTCTTGAGA

SEQ ID NO:1965: (Length of Sequence = 299 Nucleotides)

CGCGTGGAT CCCGAGAAGG CACAGCAGAT GCGCTTCCAG GTGCATACCC ACCITCAAGT GATTGAGGAG AGGGTGAATC
AGAGCCTGGG CTGTCTGAC CAGAACCCCC ACTGGCTCA GGAGCTGGG CCCCAAATCC AGGAACTCCT CCACTCTGAA
CACCTGGGTC CAGTGAATT GGAAGCCCT GCGCTGGG GCAGCAGCGA GGACAAGGT GGGCTGCAGC CTCCAGATTC
CAAGGATGCA GACACCCCA TGACCTTCC AAAAGGTCC ACAGAACAAG ATGCTNCAT

SEQ ID NO:1966: (Length of Sequence = 320 Nucleotides)

GTCCCTGCAC ATGCGTCTGG CAAGACGGT CAGCTTTGTG GTCTGAAGCA GGAAAGTTTG TCTGTNCTTA GCCAGTAGCT
TGCCCTGTT GCGCTGGT GTGTAAAGAG AGAGACTTTG AGCTTCAGGT CTGGATAAAT NACCCCTTGA GTGTGGCTCC
GTGGTGCCCC GAGTGGCCCC CTCAAGCTGA GTTGGGTCT TCAGTCCCC ATACTTCTTC CAGTAGATCC AACAGGAAGC
ACAGAGGCGG CACTGCATGT TAGGTGGGCC CCAGGCATAC CACTGAGCAG ACTGTGTGGT GTGGCACTC TCACAAGTCA

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SEQ ID NO:1967: (Length of Sequence = 296 Nucleotides)

GCTCTGCTGG CCGTGCAGAA GCTCATGGTG CACAACCTGG AATACCTTGG CAAGCAGCTC CAGTCCGAGC AGCCCCAGAC
CGCTGCCGCC CGAAGCTAAG CCTGCCTCTG GCCTTCCCCT CCGCCTCAAT GCAGAACCAG TAGTGGGAGC ACTGTGTTTA
GAGTTAAGAG TGAACACTGT TTGATTTTAC TTGGAATTC CTCTGTTATA TAGCTTTTCC CAATGCTAAT TTCCAAACAA
CAACAACAAA ATAACATGTT TGCTGTAA GTGTATAAA AGTAGGTGAT TCTGTA

SEQ ID NO:1968: (Length of Sequence = 311 Nucleotides)

ACCCCTTCA CTCCTCCCA CCAGCTCTGC AGCCAGCCTA TGGCAATTAT ATTTAAGAG GTGTCCAG GACTTTGGG
ACCTACTAAA ACAATGATGG TTATTTTAGA TGTGATGATT TATATTTATG TAGAGATATT TCTGGACCAC TCAAGCTCTT
CGATACAAA ATCAGGAGCA TCTTGGGATT TATTAAATTA TGTAAGAAGA TAGCACAGAT ATCGGGATAT TATTGTGTGA
AAATGCTGCT TTTACTTTGA TGTGATCTCA TTGATGTACA CAACCAAGTT CCAATAAAGT GCTAGAATGT G

SEQ ID NO:1969: (Length of Sequence = 266 Nucleotides)

CAATAATAAA AAGGATTATA TTCTGATAC ATGCAATATG GGTGAACCGT AAAAATATCA TGCTGAGCAA GAGAAGCCAA
ACACAAGAGA ACATGTTGTT ATGATTTTAC GTACATGAAA CTTTAGTAAA GACAAGTCTA ATCCATAGTG ACAGAAAGCA
AATCAGTAAC TGCTGACAGG GGCAAATGAG GNGATGATCT CAAGGGNACC TTCTGGGGTA AGACGCTGTT CTGTATCTCG
ATCGNATTGG TGGTCACACA AGTGAA

SEQ ID NO:1970: (Length of Sequence = 317 Nucleotides)

CTCGGGAGGC TGAGGCAGAA GAATGGGTG AGGCCAGGAG GCGGAGGTG CAGTGAGCCA AGATTGCGCC ATTGTACTCC
AGCCTGGGCC ACAAGATTGA AACTTCATCT CGGGGAAAA AAAAATGAGC TAAATACAAG AGATGGTAAT GCAGGAAATG
AGAGAGAAAG AAGCTATAGA ATGCACCATC AGTCTTTGCT GAGAGGAGAA GCTAGGACAC TTATGCGCAT GTNCCTGTCT
GCCTTCCTTC CCGTCCCGCG GATGGTTGGA GCAGGTCTTT GTTTGCTGCA GAGCATGCCA TGTCATCCTC CTGTCT

SEQ ID NO:1971: (Length of Sequence = 263 Nucleotides)

GTGCATACTG CTGAGCGGC TACGCTGGCA GGGTAAGCAA AAGAAGCACC CCAGCCTAAG TTTACAGAGA ACCAGGACAT
CATTTTGAAT ATAACCTAGT TCTAATAGTC AAATGGCCAC TCAAGGTGAC AAATAGGAAC TTCAGTGGTC ACCCCTCGGA
AGCAAGCTTT CAATGTCCCC CACCTGTAGA AGGCTGAAAA ACATCCTCCA AAGATAACAG GTTCCAATCA CTGGAACCTG
TATTACTTAT TACCATTAA TAT

SEQ ID NO:1972: (Length of Sequence = 295 Nucleotides)

GACAAAGAAA GCAGAATAAT TTTACCTGAG AAGAAACCAG GAGGCTTCTT CTCTCTCTTC TCTCTCTTTT TTTTTTTTTT
TTTTTGACTA TACAGAAGAA AACTATCAGA GTTAGGTTAG AGAGTTGGGT TTGGGGTCAG GTGTAGCAT GTGTTATATT
ATGGGTAAA TTGTGTCTC CCCAAATTA ATATGTTGAA GTCTTAACTC OCTGTACCTC AGAATGTGAC CNCATGGGGA
AATAAGGTCA TTGCAATATA ATTAGGTAAA ATAAGGTCAT ACTAGAAGAG GGTAG

SEQ ID NO:1973: (Length of Sequence = 243 Nucleotides)

AGACCGCAGT CATCTCAGC ACTACACGCA GGCCATNINC AAGCTGACCG CAATGCTCAT TAGCAGTAAA GATTGTNACC
CGCAGTCTCT TCATCATCTG TNCCTGGGTC CCCTCGGAT GTTCAATGAG CATGGCATGG AGACGGCCCT GGCTGCTGG
GAGTGGCTGC TGGCTGGCAA GGATGGAGTG GAAGTGCCGT TNATGCGGGA GATGGCAGGG GCCTGGCACA TGACGGTGEN
GCA

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SEQ ID NO:1974: (Length of Sequence = 304 Nucleotides)

GGATGAGATG ATGACGTCA TCGGGGTGAC CAAGGGCAAA GGCTACAAAG GGGTCACCAG TCGTTGGCAC ACCAAGAAGC
TGCCCCGCAA GACCCACCGA GGCTGCGCA AGGTGGCCTG TATTGGGGCA TGGCATCCTG CTCTGTAGC CTTCTCTGTG
GCACGCGCTG GGCAGAAAGG CTACCATCAC CGCACTGAGA TCAACAAGAA GATTATATAAG ATTGGCCAGG GCTACCTTAT
CAAGGACGGC AAGCTGATCA AGAACAATGC CTCCACTGAC TATGACCTAT CTGACAAGAG CATC

SEQ ID NO:1975: (Length of Sequence = 233 Nucleotides)

CCTTCTCCAT CACCCITGGA CCTCTCTGA GTGGTCTCTC AAGGCACATT TATTTTCTCT GCTGCAACCT ACCAGATCTG
ACATCCACCT CCCCAGCAC CCATGGGCCA AGGAGGCTG GGGCAGCAA GGGGAGTCC AGGACCAAGC AAGCAAGAAA
CCGTCTTTG AACACATGGT TAAGCTTCTT CCAGCATGGC CCTAATTCCC CTACCTGCCT AAGCCAGGGG AGT

SEQ ID NO:1976: (Length of Sequence = 162 Nucleotides)

AAGTGTACA AGCCCCAGAA TGCTGCCCGG CCTGCCCTGC TGGGCGGACT GTCTGTGTGT CTGINTCTCT GGGTTCCAC
CTCCAAGCCT ATACCAGCTG TGTACAGCGC CATCTCTCTG CCTTCTGTG CCCCTCACTC ACCAAACAG TGTATTTATA
GC

SEQ ID NO:1977: (Length of Sequence = 270 Nucleotides)

GGCTGAATTA AGAGCATCCA GAAAGCCAG GCCCTCCATA GGCTGTGGCG GGATGATCTT CACTTTGATC TCTTTGGTGG
CATTAGGTTG TGTGTGAGT GGCTGTGATT TCTTCTCTGC AGGGGGAGTG GCATCTCTCTG GAGCAGCTAC GTTGCTCTGA
CGTTTGAGGG GGATGGGTTT AAGGTTGTAC TTGTCAGAAA CCACCACTGT GCTGGCATTG TTCTTCACAG GCACCAAGGA
TGGTGTCTCC AGCTCTAGTC CAGTGAACG

SEQ ID NO:1978: (Length of Sequence = 167 Nucleotides)

TTGCAGGAGT TGCTGATATT TATTCAAACG TCATCCATAC AATAAAGAAC TCTNCTTTTA AAATTCCATT TACATCAGCA
GTTAAAAAAA AGTGACAGTG GATGAACAT GANGCTGTAA AGTGCCTTTA TGGGGAATNC AGCCACGCCT GCCTCCACTG
TGCTGGG

SEQ ID NO:1979: (Length of Sequence = 346 Nucleotides)

CATCATAGCA ACAAAGGCT ATGTACTATA CTCAGAAAA CCATTTATTT GCACTGGAGG CAACTGTCTT TGAGAGAGGA
AAAGTAAATT GTCCAAGATG TAACATCTTA TAAATAGCAA AGCAAGGATG AAAATTATTA TATTTINACTA AATCAGTATG
AGAATCCTGA TTCTTCATTA TTATATCCCC AACACTCTAT CAGTTTGTG AACAAATCAA CAAATAAGCT TGAATAAAGG
NTCCACATCT CAATTCTCCT CCACCATCT ATATTGCCCT TCATCCCTAC ATTAAAAATN TATTTTCTGC TTTTCTCTT
TAACAATTTA TCCCTAAAGT AACTAG

SEQ ID NO:1980: (Length of Sequence = 174 Nucleotides)

CACAACTGA CAGAGGAGAC AGGAGGAATT TAATATTACA TGCTATAATG ATATTTATCT CACAGTTTAT ATTTCAITCA
TTTATATTAT TTTTAAAAA GGTTCCTTA TCAGCTACTA AACATCTCAG CAATTGGTG TGCATAGCTC TAGATTAAAGC
AACAAAGAAT TGTA

SEQ ID NO:1981: (Length of Sequence = 276 Nucleotides)

TGGNTCACTC ATAAGTTTC AGTGGTAAAT TACTACAGTT TAAGAAGACG TGTGATTAT TTTAGATCT GACCCAGCAG
ATCATACCTN TNCNTGAAT TACATGGTCT TCTTTGGCT TCTAAGATGT CACACTCCTG TCTTAGTGGC CACTGCTCCT

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CAAGCCCCCT TTGCTAGCTC TTCCTCATCT GTCCAGCCCT AACCTGACCG TGCTATGTAA GTCTTCTCCG TTTTCACCCC
CTNCCNGGGT GACCGTTATA CTNCCAAACC TACAGG

SEQ ID NO:1982: (Length of Sequence = 288 Nucleotides)

GCTGCAGAGA GGTGTGNTCC AGGAGCAGGC TTCCCGCTC GGGATCCAGG TCATCCCCCA CCAGAGAAAT TTCACAGCCA
TCCAGGTTGT GCACAATCTC ATCCGACATG CGTGTNTCTG TCACTGTGCC CTGCCAACTC TCATCCTTTT TGGCCTCCAC
CTGGTGAGAA ATGGAGCAGG TGATTTGAAG ATCAGGGAAC AAAGGGACGC CGTTGGTTCC CTCAAAGTCC ACAGCTNGGC
GGGCAAAATG AGCAGTGCCA CTCAGCAGGA TCTGGGGGGC GTCAGGCT

SEQ ID NO:1983: (Length of Sequence = 273 Nucleotides)

CACAAGCCAC TTTCAGCCTC CAGTGGGAAG GCTCCAGCCA CACGCCGATA TTTCGTCTCG CTTCCTGTC TCTCATATCT
AAAAGTCATG GCTTAAGTTA GGCAATAAAA CCTGTGGCTT TAGGCATCTT TAGTAAAAAA GCTGAACAAA TCCCAAATTT
ATTCCCATTT TCTTGAGAAA TAACTTCAT AAAACAACAG ACAGCTGTCA TGATTACTGA GTTTTGGCTG ATGGCGAAAT
AATTTTATG TAAGTATACT GAATAACAT ACA

SEQ ID NO:1984: (Length of Sequence = 221 Nucleotides)

GAAGAGGCTG CTCTGGCCTG GGACACCCCC ACTGCTCTCA AGGAGCTGGC ATCTCAGTGG CCTCTNAGCC CAGCCTGAGC
CCTGTGGGAG TNCGGGGGCA GTGACTGGAA TGTTCTGCTG GGCAGGCTGC AGCAGCCGAG GTGGCCCCAG GGCAGAGGAG
TGCAGCGCAN CTCATGGGTG CCCTATGCCA CCCCTGGTGC TCACTGGGCT GCTGATGCCG T

SEQ ID NO:1985: (Length of Sequence = 197 Nucleotides)

TTGCTACCAT GAGGGAAGTG CTGTTGCTT GGCTACAGC AAGTNATACA GCCTGCGAGG CACAGTCCCC AAAAGTCTAG
CTGCAATTCT ATTGGTGGTT TTCCCAAAC AGCAATAACA AGATGTTACC TGAAGCACA CCAGAGCCAA TCATGACTCA
GGCCTGTCTA GATGTTAGA TGCTGGAAA TATATTT

SEQ ID NO:1986: (Length of Sequence = 268 Nucleotides)

CAC TTGGACA TTCCTCTTA TTGTTACAT TCCAACCCAG CACAGTCACA TGCACACAG GAGATCAGAA ACCTTTNGGC
CACAGCCCCA GGAGCCCGGC GGGGGGGAGG GCGGGACCGA CAGGGGCGGG GCGGGGCGGT GGAAGACTCC TCCTACCGAG
CCTCCAGGC GNTCGCGTT TGATAAACA AGAGAGCTGG AGAGGNTGCC CTCAACAGTG CGCTGGGGAA AGGGGAGGGA
ACGTGACAGG CAGGTNNGG ATAGGGAC

SEQ ID NO:1987: (Length of Sequence = 282 Nucleotides)

GTCTCACTG TAAACAAATG AGGATGGAGG AACTGAGAG GNTCAAATAT GAAAGGCAGT ATGGGGAGTT AGAGCCACTC
GTCTACTCT GTAAAGAGCA TGACTACTCA CAGTCTTTCT AGCGGGTAGT CACTCTTTCA TTAAACAAAT ACTTAGTCCC
TGCAATGATC TAGGATAATA ACTCAACAGT GTATATCAAG AGCCTTTAAA AAGTTATACC TGGCCGGGCG CAGTGGCTCA
TGTATGTAAC CCTAGCACTT TGGGAGGCCA AGGCAGGCAG AT

SEQ ID NO:1988: (Length of Sequence = 226 Nucleotides)

GTGAGGGGGT TCGGTCTCTC AGGAAGTTAG GCCATAATTT CTGCAGGTTT AGTGATTAACT TTGGATCCAT CCCATGCTGT
CTTGAAGTGT TCAGGAATGG GAAATCTCT ATAATCAACA TCTGAGGGA TAAGTATGTT CATTTAGAT GACTTGGCGC
TCACGNTCTC ACAGTCTAAT GCATCTTCAC TGAGGTATAT GTGGCAACCT TCTGTCTTAT TAATGG

SEQ ID NO:1989: (Length of Sequence = 193 Nucleotides)

CTCCCTGTAG GTCATGTCCT TGAGAGTTAA AAGATGGGTT GAGTAGGCAG AGGTCTCAGG CACCGGGGAC AGAAGACAAG
GACATTCAGC ACGGGCAGCC ATGCTCTTCC CAGCACCCAG AAAAGGCCCA GGGCCCGGAC TCCTGGGTGT GGTCA TGAGA
AGCGCCTCCG ATTACGCTC TTCTCTTCTT GTG

SEQ ID NO:1990: (Length of Sequence = 223 Nucleotides)

CTGCTTCATT TACCACCACC AGCCGATGGA CCAGTTTATT GGATTCACCT ATGATACCAG GACTTTTCCA TTCAATTCAA
TTCAACAAAC TTTTAGAGAT CGCCCTATT CCAAGCTCAT CCAGTTCTG CTTCATGAAG GCAGGCTTTG GCATATCAGA
CATAAAAAGC TGGAGGAAC TGAGGATTCT TTTGTGGTGA AGTATATAAA GTGCATTCCC ACT

SEQ ID NO:1991: (Length of Sequence = 385 Nucleotides)

GCAGAGAAAG TGCCAGGCAT CAACCCAGT TTCGTGTTC TGCAGCTCTA CCATTCCCCC TTCTTTGGCG ACGAGTCAAA
CAAGCCAATC CTGCTGCCCA ATGAGTCACA GTCCTTTGAG CGGTGGTGC AGCTCCTCGA CCAGATCCCA TCATACGACA
CCCACAAGAT CGCCGTCTG TATGTTGGAG AAGGCCAGAG CAACAGCGAG CTCGCCATCC TGTCCAATGA GCATGGCTCC
TACAGGTACA CGGAGTTCCT GACGGGCTG GCGCGCTCA TCGAGCTGAA GGACTNCCAG CCGGACAAGG TGTACCTGGG
AGGCCTTGAC GTNTGTINGTT AGGACGGCCA GTTCAACTAC TNCINGCAG ATGACATCAT GGAAG

SEQ ID NO:1992: (Length of Sequence = 312 Nucleotides)

GGCTTACAGG ACAGAAAGGT CCCTCTCAC AGTTTGGGAG GTCCGAAGTC TGAAGTGAAG CTGTCAGCAG GGCCACACCC
CCTCTGGATG CTCAGGGGA GGGTCTTTG CCTCTTCCAG TTCTGGTGGC TCCAGGCATT CCTGCTTTA TGGTGGCATC
ATTATCTCT GCTCGTCTT CAGTGGCCT TCTCTGTGT GTCAAAATCT CTCTCTGT CTCTGTAAA AACACTGTG
ATTGGGATT AGGNCACC CCAATCTAGA TGGTCTATC TTGAGCCTT ACTTAGTTA CCTCTGAAA GA

SEQ ID NO:1993: (Length of Sequence = 429 Nucleotides)

CTGTTTTTAC TCGACGAGGA GAAGACCTT TCATGTGTAT GGACATACAG CTCGTGAAG CACTGTGTGG CTTCAGAAG
CCAATATCTA CTCTGACAA CCGAACCATC GTCATCACCT CTCATCCAGG TCAGATTGTC AAGCATGGAG ATATCAAGTG
TGTAATAAAT GAAGGCATGC CAATTTATCG TAGACCATAT GAAAGGGTC GCCTAATCAT CGAATTTAAG GTAACTTTT
CTGAGAATGG CTTCTCTCT CCGTATAAAC TGTCTTNTCT GGAAAACTC CTACCCGAGA GGAAGGAAGG GAAGAGACTN
ATGAGATGGA CCAAGTAGAA CTGGTGGGAC TTTNGATCCC AATCAGGAAA GACGCGNCA CTNCAATGGG GGAAGCATAT
GAGGGATGAT GGACCATCAT CCCAGAGGT

SEQ ID NO:1994: (Length of Sequence = 377 Nucleotides)

TGGGGTGGC AAACCAAGTT CCCCTGTCCT GTGTCAGCCA GCTGTGGCAA TTTACCCCTT ATTCCTTGA GAGGCCAGCT
GCCTGCTGGA AGGAGTCAGA AGTCGGTGA TGTCAATTGAG GCCTTGGAGG CCCCAJNTG GCGGGAGAGA AATCCACACC
TGTGCTGGA GTTCTCTTC CCGTACCTC TGAACCGCG CTTAAATGC TGTCCCGCT GGAACAGGA GGCCACATCC
AGCAGTGGT CCTCAATGTG CTGCCCCAGC CTGTGGGAAT CCGTTTTGT GCTTGATTTT TTGCTGGAGA TGTGGAAGGT
GATCATGCCA TCCCCATGA AGATATAAGA AACANCATAA CCATGGTCAT CAGCAGG

SEQ ID NO:1995: (Length of Sequence = 341 Nucleotides)

GGACCTATAT GGCCATGCTC TGGCTTACC CTGTGGAAGC CTGATCCCGG TGTGTGGCCC AGCTTGTTC GGGCCTGGGA
TGCTGCATCT CCAGGCAACT ATGCATTTT CCGGGGAGAG AACCAGTATG AGAAGTGGGG GCAGGSCACA CATTATCTT
TGTACCTGCC TCTTTGGTTT GGACCTGGCC AGTCGGGTCA CTGCCTCCAC GTCTGAGGCC CCGCCAGCTG CGCGTCTGTC

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CTCGCCAGCC TCAGGCTGCT GCGCTCTCTC GGCTTTTACG GACCTCTGAG GCCGAAACCC CACCTOGAAG TTTCCCGGTG
ACAGTGCGTC CGAGTCCACA T

SEQ ID NO:1996: (Length of Sequence = 316 Nucleotides)

GCATATGGTT GGTGAACAGT TTTGCAGCCC TAGGCTCCTG TACTGTGCGT GCACGCGCGC CCGGGCAGCC GCTGGCTCCA
GCTCAGAAA CAGCCCGGG CGCCGCGCG CTCTGAGTCC AGCCTCCTAC TGAGAACAGT CCCTCCCTTG TCGGGGTGCG
ACGGCTAGCC GCAGGTTGCG CCACGTCAA TCCATTTTNT AAAAAAGCAG GGAGCAGAGC TCTCTCTTCG CCGCCGACGC
AGAAAGGAGC TNGGGAGGAA AAAGCTGCTG CCTTTTGCGC TGGAGATTCG TGGGCAAGGC TTCTCATTTT CCCAGG

SEQ ID NO:1997: (Length of Sequence = 320 Nucleotides)

GCAGTTTAT GTTTTATTT ATGTATTTTA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACTTG
CAGAACTGTG CCTGGNGCAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTGAAG AAAGNGTAA AATCTCCCC
AAACCCTAAA GGCATCCTTT TCGTAGTGTG TGTCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTCAC CATGCTCCCA
AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTTATTAAG GTGCACANCC ATGTCTGAGC CCCAGCTCTC TCCGNTTCT

SEQ ID NO:1998: (Length of Sequence = 395 Nucleotides)

TTTGATGCTA TGGCGCTGGA CCCAGGGCCC TCCCAGGCCA TCTCTGTTCC TCTGGGGTGG TCCAGTTCTA GAGTGGGAGA
AAGGGAGTCA GCGCGATTGG GAATCGTGGT TCCAGTCTGG TTGCAGAATC TGCACATTTG CCAAGAAAT TTCCCTGTTT
GGAAAGTTTG CCCCAGCTTT CCGGGCACA CCACCTTTTG TCCCAGTGT CTGCCGGTCG ACCAATCTGC CTGCCACACA
TTGACCAAGC CAGACCCGGT TCACCCAGCT CGAGGATCCC AGGTTGAAGA GTGGCCCTT GAGGCCCTGG AAAGACCAAT
CACTGGACTT CTTCCCTTGA GAGTCAGAGG TCANCCGTGA TTCTGCCTGC AACTTATCAT TGATCTGCAG TGATT

SEQ ID NO:1999: (Length of Sequence = 337 Nucleotides)

GAAAGTATTT GTGTGATTGA GTCACAGCT GAATCAATCT TCATATAATG CCATTTTTCG TTAAGAAT GCCAGACTTG
GGCATTAGGC TGACATTTTC TTGAAACAG TGAGGCTTTG CTTTAGGGAA AATAGTGGTA GTATTTATGG TCGATGATAA
AGTTCTAGA TTTTAAGCAA AAATTTTGA AAGCTGTAT CAGCTGCTGT AAGTATATAA TGAAATCTGT CATTATTGA
TTATCTGCAT AACTGAGTCA GTATTTCCAA ATGATCAATG CATAGTATTA TAAAAATCAT ACATGGGTAA GAAATCTTTA
CAAAGTGTCA GCTAGAC

SEQ ID NO:2000: (Length of Sequence = 329 Nucleotides)

ATGTAGCCCC CTGCTGCAA GGTGCCATCT TTTTNTGCT GCTCACACAG CAGCGTGCTC AGGGCCTGCC TGCATGGCAG
NNTCATCATG GGAAGCCCA CAGCCACTGA CATCATGAAG CCCACACGGA GCATCTCCGT CACCAGGTTG GAGGGAAAGT
GCATGAGCAC GTTTGCCGGC CGTGGCCTCG GTGAAGCTGA CGTAGCGAA AAACCCACC ATGACGTAGG AAGGTGGTGA
CCACATTAAG GGAGGAAGCA AATATGGAGC TCATGGTTTT CACTTGACGG GCTCATCCAG GCTGTCTAG GTGGGCAGCA
CCTGGGACT

SEQ ID NO:2001: (Length of Sequence = 308 Nucleotides)

AAGTCTGGG TTTGGTAGGC TCCAGGATT TCCCTCAGCA GGCATTGTG CTGCCGAGG GCCGTCTGGG TGCCCCGAG
GTCNTCTGG ATGCTCTGTA GCCTGCGGTG GAACGACTCC CTCACTGACT GTGTGGCAA GCTGAGCTCT GCCCTGACCC
ATGTGGCATT GGCCAGGATG GGGGCCANGC CCTGTGGGAT GCTTTGCTGC CCGTNTCTG AGGCACCGAC TGCTCTCTCT
CCCAGTGTCC CCAAGTGCTT CCTCAGAGAC TCAACCTGGN TCCAGAACTC ACCATCCACT AGGACCTT

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SEQ ID NO:2002: (Length of Sequence = 242 Nucleotides)

AGCCAGGCCC TGGGCCCAAG CCCCTGTCC CTCTCCACT GCCCTCTTT CCAGACAGTA AAGGCCATGG TCAGTGTGTT
 TTTCTCTGT AAACAAACCC CAGCTGTGTT AACAGAAATG CTAATAACCT ACTGGGAAAG ATGGAGGTCT AAATTACCTC
 CAGGGTTTTT CTGGGGGTTT ATCACCAGTG TGGGTCCCTT CTGATACCAC CAGGTTCACT CCAGGCAGAG TGGGGGGGAA
 GG

SEQ ID NO:2003: (Length of Sequence = 328 Nucleotides)

ATATTCTCAC TTATAAGTGG GAGCTAAATN ATGGGAACAC ATGGACGCAT AGAAGGGNAC ACTTTTACAC TNCTGGTGGG
 NGTGTAAACT AATACAACCA CTGTGAAAA CAGTGTGGCG NTTCGTTAAA GAACTAAAAG TAGATCTCCC GNTTGATCCA
 GCAATCCAC TACTGGGTAT CTACCCNNA GAAAATAAGT CATTATACAA AAAAGATACT TGCACACAGG TTTATAGCAG
 CACAATTTGC AATTGCAAAA AATATGGGGC CAACCCAAAT GCCCATCAAT CAATGAGTGG ATAAAGGAAA TGTGAGATAT
 ATATATAT

SEQ ID NO:2004: (Length of Sequence = 211 Nucleotides)

AGCCTTTTTA TTATTGINTT TTTTITTTTT TAANCAAGG TCCCTTACTG GTCTGCTTC CATGAGTAGC CGTGACCAGG
 GGAAAGGGA GAGGAACCAG CCGGCACAGG GAGGGGTCAT CTCCACAACA TTCCATTTAT ACACAGAACT AAACAGACAA
 GCACAGNTC ACTATTGCGG TTAGAAGTTG GCAGCATGGG AAGGGGGAGG A

SEQ ID NO:2005: (Length of Sequence = 241 Nucleotides)

CCGGGACACC GTGGGGAAGG GGTGCAGGTG GGGTGATGCC CAGAGGAATG ATGGGCTTTT NITCTGAGGG GTGTCCGAGA
 GGCTGGTGTA TGCACGTCTC ACGGACCCCA TGTGGATCT TTCTCCCTTT CTCTCTCTCT TTTTCTCTTC ACATCTCCCC
 CATAGCACCC TGCCCTCATG GGACCTGCCC TCCCTCAGCC GTCAGCCATC AGCCATGGCC CTCCAGTGC CTCTAGCCC
 C

SEQ ID NO:2006: (Length of Sequence = 266 Nucleotides)

TTCCCCCTAA CCTTGTGAGT GGGCCTTTTA AGTAGTAAGT AGTATACACC TAGATATGGA TAGATAGCTA GGTGACCAAA
 CCTAATGGAT TAAGGCCATC CTCGCTAGG TCACCTACTA AAGATCAGGT CATATGTTCAT ATCGTTCTTG TGCTTTTTAG
 AACGTATTTG GGAATGGGTT CCAGATTTTT TTTAAACACA TATTAAAGAT TATTTATATT ATGCTTTGTT TCCGAAAGGT
 TTTAAGGTGG ATTAAATAT AAGATT

SEQ ID NO:2007: (Length of Sequence = 419 Nucleotides)

AGAAAGAGGC TTCTTCTGCG GGAGGCAGGT GGAGCACAGG GAGGGCTCCT GGGAGGCACA GGAGTGGGGT GGGGGCCAGG
 AAGGGGGAGG TGGACAGAGC GACTTGGATA AGGCTGGGCC GGGCCCAAGC CCACCTCAAG AGGGGGGCGG CCTCTCAGG
 AGGNATCAAG GTGCAATCCA GTCTTCTTTT CTCTCCCTGA AGACCTGAGT TCCAGCCTTC ACAGAGCGTC ATGCGCATTC
 TTCTTTCTGG ATGCTAACCC CAAATCGAC ACTCAATGGT GCACCTCAGG TACCTGCCAA GGTCTINTGG GCCCACATGG
 AAGGTGCAGG GTCTGGGTCC CTGGATGACG AGGTGAGGGG CAGATGGGTG ACCAGGGAAG GGCATGACCC AGAGCTNCCG
 GGACTCATGG AGGATINGG

SEQ ID NO:2008: (Length of Sequence = 360 Nucleotides)

CTTTTCTGGA GAAATAATA CGCTCGTCC TCTAATTAGC CCATCGGTTT CAGGTTTCATC ACTCTGCTAT CTCTCTCTGG
 AGTTTACACA AGCCCTTCAG AGTGTAAACA CCGATGTGGA TTCAATCCCA CTCATTATTT TTTTCAATAA AAAGAGAACT
 GTTTCACAG ACAGGTGTTG TTTCCGACAT CATCAGAGAG GAAGGTGGAT GGTCTATAC GGTAAAGCAT CTACCCCTCA

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GCTGCCAGGG ACAGATCCAT AAAANTCCAA AAAGGGAAGA GAGAAACAGC TTGAGTACAG CTGAATCATT CACAACAATA
TTACAAGCAA TTACTTCAAT GGTAAAGTCT CCAGTCTAGA

SEQ ID NO:2009: (Length of Sequence = 411 Nucleotides)

ATTACGGGCA CCTGCCACCA CGCCTGGCTA GTTTTGTAT TTTTAGTAGA GACGATGTTT CACCATGTTG ACCAGGCTGG
TCTCGAACTC TTGACCTCAA GTGATCCACT CGCTTGGGCC TCCCAAAGTG CTGGGATTAT AGGCGTGAGC ACCTGTGCCC
AGCCTCACAG CTGCATCTTA ACCTTACCTT TGCCTCTGCC TCTCAAGCTG GTACCTCCTA ATTTACATCC TAAGAGTGGA
ACCATGTGAC AAGGACTGGA GTGCCATTGG CTGTGGACTG TTCAGGCAGG GAAGTACAAG ACCACTCTTG TATTGAGGGG
CAACCAAAGG AGAGAATTAC GTACTTGTG AGTACAACT GCACCAAGCC CTGGAGACCC ATTACCAACG TTAACCTCA
ATACAGCTCT G

SEQ ID NO:2010: (Length of Sequence = 311 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGGG AAGCTGTGTG CACGCGGTG GAGGGTNCCT NTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTTGTGAGA GGTGAGTCTT GGTACCCAGC ACGTGGCCT CCGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCAGC TCAGGGCTCC TCCAAGGAAC CTGCGGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGCCC
TCTCTGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTCTCTG TGATACAACG T

SEQ ID NO:2011: (Length of Sequence = 192 Nucleotides)

TCAGGACATT TCAGTGAGGC CACCTACAAG CAGAAAGGAG GCCCAGGGCT AGGGACAGAN TGGCCCCAGA GCCAGTCAGC
TGCAGCAATT CTGTGAGAA AGGGAGGGCA AGCTGCCAGA GCANTGTNGC CCAATATGAT GCCTACACGA GACAGATGTC
CCCAGTAGAG TGTGTTCACT GACCTTCTAA AC

SEQ ID NO:2012: (Length of Sequence = 367 Nucleotides)

GGATGACCTT CGAGGACGTG TGCCGGTACT TCACGGACAT CATCAAGTGC CGGTGATCA ACACATCCCA CCTGAGCATC
CACAAGACGT GGGAGGAGGC CCGGCTGCAT GCGGCCTGGA CGCTGCATGA GGACCCGCGA CAGAACCAGG GTGGCGGCTG
CATCAACCAC AAGGACACCT TCTTCCAGAA CCCACAGTAC ATCTTGAAG TCAAGAAGCC AGAAGATGAA GTCTGATCT
GCATCCAGCA GCGGCCAAAG CGGTCTACGC GCGGGAGGG CAAGGGTGAG AACCTGGNCA TTGGCTTTGA CATCTACAAG
GTGGAGGAGA ACCGCCAGTA CCGCATGCAC AGCCTTCAGC ACAAGGC

SEQ ID NO:2013: (Length of Sequence = 213 Nucleotides)

GATTTTATGG AAAAAAATTT CCATTTTNTT TAAGAAATAA GGAGTTTNTG TGTGAGGGC ATGACTACGA GAGGCTGGAA
GCTTCCAACA GAGAATGCTG AACGANTTCC CCCATGCCAT CGCCATGCAG CACGCAACC AGCCCGATGA GACCATCTTC
CAGGCAGAAG CTCAGTATTT GCAGATATAT GCTGTGACTC CCATTCCAGA GAG

SEQ ID NO:2014: (Length of Sequence = 333 Nucleotides)

GTAAATAAA ACAGCAAATT CTAAATACA TTATGAGTAA AGAAAGATTA AAATAAGGNA ACAGTACTTA CTGTGCAACT
TTAAATTATA CCAAGTAAAG TACACCACCT ATTCACTGAT AACATTTTCC CTACGTTGAA AACACAAAAC CTACTTATCG
ATATTTTGA TATTAAAAA AAGGACATTC ACTATTGTAG CCCTGACAAC TCTTCCAGTA TTTTAAACCA TTCAGATGTA
TTATGTGGG ATATTATTA ACATAATTIN GTTAAACACA TTTCTTTCTA CACAACTGA ATTTTAAAG TGTCTATAAC
ATTTTCAATT ACA

SEQ ID NO:2015: (Length of Sequence = 179 Nucleotides)

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NCACCACTTA TTGCTTCAA ACATTATTGC ACTTTAACTT TCTTAATTTG ACAAAGCATT CAAGAAACAT CTGCAGACTA
 GTTTTAACAG ACAAATAACA CCTGTAAGCA GACATGACTG TCCTAAATTG TTTATTAAGA AAGTTAAAGN GCAATAATGT
 TTGAAGACAA TAAGTGGTG

SEQ ID NO:2016: (Length of Sequence = 293 Nucleotides)

TTTCCCTCC CCAGAGATGC TTTATTACAT GGTTTCATCA GTCATCAATG ATGGGTCCCT ATGCCCATGC GAGGAGACAG
 GAACATCTGT GTGGTACATG GCACTGTTCC CCTCTCAGCT ACGCAGTCAG ATGGGGGCAG GGGGATGAAT GGGTGTCTGG
 CTTCCCTGCT GTTGGGCAGG CTCTGAGATC TCAGCAGACA GAAATGAAAG CCTGGCAAAT AGGGAGGCAG GAATGTTCAA
 GCATCGGTGA CCTCCATGTT CTGCAGCCTG TTTCTAGGG TGACGTCTCT TTG

SEQ ID NO:2017: (Length of Sequence = 504 Nucleotides)

CGCGTGCTGG CGCGCTGTG GCGCGCTGC TGTGCGNCCC CAGNCTCCTC GTGSCCCTGG ATATCTGTTC CAAAAACCCC
 TGCCACAACG GTGGTTTATG CGAGGAGATT TCCCAAGAAG TGGAGGAGA TGTCTTCCCC TGTACACCT GCACGTGCCT
 TAAGGGCTAC GCGGGCAACC ACTGTGAGAC GAAATGTGTC GAGCCACTGG GCATGGAGAA TGGGAACATT GCCAACTCAC
 AGATGCGCGC CTCATCTGTG CGTGTGACCT TCTTNGGNTT GCAGCATTTG GTCCCGGAGC TGGCCCGCCT GAACCGCGCA
 GGCATGGTCA ATGCTGGACA ACCAGCATCA ATGACGATAA CCCTGGTTC CAGGTGAAAT TNCINCGGAG GGATNTGGGT
 AACANNITIT GTTACGAAGG GTGCCANCCG TTTGGCCAGT ATTGGTACCT AAAGGCTTTA AAGGTGGCCT ANAGCTTAAT
 TGENAGGAIN CENITTTNCC ATGT

SEQ ID NO:2018: (Length of Sequence = 354 Nucleotides)

AGANCAGACC CACAGGCATG CAGAAAGTA GGCAGTATG TTTAANTCCA GACTTGGCAC ATGGCTAGGG ATACTGCTCA
 CTAGCTGTGG AGGTCTCAG GAGTGGAGAG AATGAGTAGG AGGGCAGAAG CTTCCATTTT TTTCTTCCCT AAGACCCGTG
 TATTTGINTT ATTTCTGCC TTTCCGAGTC CTGCAGTGGG CTGCCCTGTA CCTGAACCT CATGAGCCTC TAAGGGAAAG
 GAGGAACAAT TAGGACGTGG CAATGAGACC TGGCAGGCA GAGTACAAGC CCAGCACCCA GTGTCCAGN CTTACTGGGT
 CCTTANCTG GGCCAAACAG GGAGGGCTGA TACC

SEQ ID NO:2019: (Length of Sequence = 295 Nucleotides)

GACACAACCT TTGAACAT TGTGCTGTT TTCATTTTAA AAAGGAACCT TTAATACTAA AATTATAGGA AGAACATAAT
 ATCTGACGTC ACGTAAATTC AGATTGAAG GAAATTTACT TTTTNCCTT ATTIGINCIT ATTTTTCCTC ATTTTGTAA
 GAACCAGCGA ACACTTTGAA GAAAGCCAAA AGTTTACATC TGGAGCTGGA GGGTTCGTG ACTGCACACC AGGCACTCTG
 CCAGCCCTAC TTCTGCCTGT AGTCTGCAG GTCACTTGCC AGAGGTGGTA CTTTC

SEQ ID NO:2020: (Length of Sequence = 217 Nucleotides)

ATTGGAACIT AAGTTTCACA AGGAAAGTGG TCACTTTAGT TCACCACITT CTTGTGAAA CTTAAGTTC AATGGGAGAA
 TGACAGTAAA CAGACAACTA TTATAATANG TCCATGGAAG ATTTTGGTGT ATGINAGATT TNCAAATCTG TAGAGAAACN
 TNGGCTCATT CAATAAAAT TTTGAAACCA TTGATTAATG TCTTAATAAC TATATGT

SEQ ID NO:2021: (Length of Sequence = 380 Nucleotides)

TTTTTTCTTA AAACAACAGC AACGTGATCT TGCTGTCTG TCATGTGTG AAGTCCATGG TTGGGTCTTG TGAAGTCTGA
 GGTTTAACAG TTGTGTGTC TGGNGGGATT TTCTTACAGC GAAGACTTGA GTTCTCCAA GTCCAGAAC CCCAAGAATG
 GGCAAGAAGG ATCAGGTCAG CCACTCCCTG GAGACACAGC CTCTGGCTG GGGACTGACT TGGCCATGTT CTCAGCTGAG

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CCACGCGGCT NGTAGTGAG CCTTCTGTGA CCCGCTNTG GTAAGTCCAG CCTTCCAGG GCTGCTGAGG GCTGCCTCTT
GACAGTGCAG TCTTATCGAG ACCCAACGGC TCAATCTGCT CATCCNTAAA GTGGGGGATA

SEQ ID NO:2022: (Length of Sequence = 223 Nucleotides)

GGTCACACAG CTAGTTGGTA GAGGAGCTCT TCCATAAGAT AGCAAGGCCA CATCACCTGC AGGGCAGTGC CTGCNCTGGG
AGGTGGCACA ATGTGCCAAG TGATGACGAT GACAATAACT ATGAAAGGAT TTTATATTTG CACAGCATTT GGTTCCTGA
TCTTCGATGA GGAAGAGCTC CTGCCGATGT CTGCTGAATT GTGCAGTAAA ATATTCAGGA TGG

SEQ ID NO:2023: (Length of Sequence = 294 Nucleotides)

TATTCCTAAG TTTGCACTTT ACAAACCAC AAGGGAGAAG TCCTTGAAGG GGAGACAGGG GTAGGGGATT AGGGAGTGGG
GGATGGTAAA GAGGGGAAGA GGAAGACCA GAAACGAAGT CCCCTCCAAC CCCATCTCGG GGACCAAGCA GAGACTAGGC
CTCAGGCTAG CCCAGCAGGG TTCTGTGTG CTGGTTGTAC AGAGCTAGGC CAAAAGACCT CAGGGGAAGG GCCATGGCCC
TCTAGAGACT GCCGCCATTT GAGGGACAGC CACAGGCCAA TGTTTCCTGT GCCC

SEQ ID NO:2024: (Length of Sequence = 234 Nucleotides)

ATTTTGTGCG GGTTCGAAAC GTCTTCCTGC CTGAGCTGG GAGCTTCACC AGGCTTCGGT GTAGCGGACG TCCACTTCCT
TCAAATTGGG AAGCTTGGCC TTCAGATCTT CGTAGGTGTC AGCTGAGAGC TINGTGCTGT TCATGTTTAA ACTGCAGAGA
CTCTTCATGG AGCTCAGGGC CAGCAGGCCA GCGTCTGTAA CCGGGGTCTC GCACAGGTTG AGCACCTGGA GCAT

SEQ ID NO:2025: (Length of Sequence = 327 Nucleotides)

AGGAACAAAT GTTAAAGGGT AAGATAATTT CCCTGCAAAA GGACACAGAA GGCAGTCTTA AGAAGATGAA TGGATGAGAG
AAGGGAGAGA ATAAATGCA ATAACGAGCC AGCATTTACT ATGTATTINN TCCTCACCTG TCTCTCCATA TTTAGGTCAC
TTACCAGTTT CTGTGCCCTT TTGGAGCTTT TTTGAGGGC TTCATTCTCA CCCTGTATTT CTTTAGCCCT AAATTGACAC
TCTCTCAAAA AATCCATTCC ATTGTCTGTG GACCNAGATG TTCTATGTAA TTCAGAAGCA GAACTCTTGG CTAAGGGCT
AGTGTGG

SEQ ID NO:2026: (Length of Sequence = 328 Nucleotides)

TCAGTATAAA TTTAAAGAA ACAGCTAAT GAAATACAAG TCAGTTTATT TGATATTCAG CCTACAGCTT TCCAAAGCAG
CAGTTGAACA TGTGTGTGAG TTTATACCAT TCAATCATTC ATTTATTTTT NCTTCTTTC TTTGAGAAA TACTGGGTGT
TTGATATTTG TTTCACTGTG CTAGTTTCTG GGAATGTGTA AGGAAGAGGC TGGCTGTGTG GATGAGAGCA ACTTGCTTTT
TACAATAATT ATTTGTATT GTAAATTAAC AATTGCTCT TCTGGTATTA TATGGAAGTA TTTGATCCNG TTGATGGCAC
TGCCTTTG

SEQ ID NO:2027: (Length of Sequence = 307 Nucleotides)

AAGAAAGATG CCAGCTCTTT ATTACCAGG AAGCTGTGTG CACGCGGTG GAGGGTNCN TTGGAGCTGA CCGGGCCCTT
ACCTTCTCCT GCTGTGTCAG GGTGAGTCT GGTACCCAGC ACGGTGGCCT CCGGAGGCT TTGATAGGTC AGCCTTTGCT
GCCTCCAGC TCAGGCTCC TCCAAGGAAC CTGCGGGCC CCATGTGCCC ACAGCCCGAG GAGGGAAGCA CCGACCGNCC
TCCTCGTGGC CAGTTGACAC ATCATCCATT TATTATCCTT CAGAGTCTAA AACTTTCTC GTGATAC

SEQ ID NO:2028: (Length of Sequence = 272 Nucleotides)

ATCCATTCT GCATTAACCT AGAGTTAAAA AGGAATATTG TTTATGTTT GGCTCTCCCC ACTAGAAGTT TCACAGNGC
ACAGATCATA TCTACCATTT GAACAGCTCT CTGCCTGATG GCTAATACAT TINTTGGCAT ATAGTAGGTA GTGCTCAAT

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AAATTNTTA CAGGAATAAA TGAGATAGGA TTTTCAAGGG TATTNCTAT TAGGATTAA TAAACAAAG TGATCTTAG
AGAAACAAAT CTCCCATCA ACATGCTATA CT

SEQ ID NO:2029: (Length of Sequence = 261 Nucleotides)

ATTTCTACTA AAANTACAAA AAATTAGCCA GCGTGGTGG TTGTGCACCT ATAATCCCAA CTACTCGGGA GGCTGAAGCA
GGACAATTGC TTGAACCCAG GAGGTGGAGG CTGCAGTGGG CTGAGATGCG ACCATTGCAC TCCACCTTGG GCAACAAGAG
GGAAACTCCG TCTCAAAAAA ACAAAACAAA ACAAACAA AACAAAGTC AAGTGCTTAC ATTTTGCCAG AAGCCACAA
TGAAGACTGT GCCTTATAGG C

SEQ ID NO:2030: (Length of Sequence = 384 Nucleotides)

NNCCNNGGAC CAACAGCAGC CAGAGCAGTT AGCCAGTTAG TCCCCAGGCC TGTTGCACAG GCGTTTCTGA CCTGCTGGGC
CGAGAATGGG TAAGTTGTCT GGAGTCAGGT GGGCCACGT AGGACAGGT CACAAAGCCT GGGTTTGTIT CTGGGTACTT
TGCGCCTCTG GGGTGCTAGA GGTGGGCAT GGTGGCTGGA AGTAAACTG CCAACTCTGG CCCTCAGAAC TCTCAGGTAT
AGAAGCCCAA GATGTCTAAT ACCCTNTCCC AGTGGCCGAG AGCTGCCTGG TGTGAGGTAG AGAGGACACT GTACCTGGGT
GAATGATCAG ACCCTGGTAG CTAAGAAGN ACTTGTCCCT TTAGTCAGTT TGCAGANCC CTIT

SEQ ID NO:2031: (Length of Sequence = 261 Nucleotides)

ATCAGAGAG AGAAGCCACT GTTGCCAGGA CAGACGCTG AGGCGGCCAA GGAGGCTGAG TTAGCTGCCC GANTCCTCCT
GGACCAGGGA CAGACTCACT CTGTGGAGAC ACCATACGGC TCTNTCACTT TCACTGTCTA TGGCACCCCC AAACCCAAAC
GCCAGCGAT CCTTACCTAC CACGATGTGG GACTCAACTA TAAATCTTGC TTCCAGCCAC TGTTTCAGTT CGAGGACATG
CAGGAAATCA TTCAGAACTT T

SEQ ID NO:2032: (Length of Sequence = 344 Nucleotides)

CCCCTGCAAG GCGTCTGGTT CTTCGGGAA AACGCTCACC CACCCCTGGT AAAGGGCCTG CAGATCGAGC ATCCCGGGCC
CCACCTCGAC CACGAGCAC CACAAGCCAG GTCACCCAG CAGAGGAAA GGATGGACAC AGCCCCATGT CCAAAGGCCT
AGTCAATGGA CTCAAGGCAG GACCAATGGC CTTGAGTTCC AAGGCAGCT CTGGTGCCCC TGTATATGTG GNTCTCGCCT
ACATCCCGAA TCATTGCAGT GGCAAGACTG CTGACCTTGA CTTCTTCCGT CGAGTGCGTG CATCCTACTA TGTGGTCAGT
GGGAATGACC CTGCCAATGG CGAG

SEQ ID NO:2033: (Length of Sequence = 373 Nucleotides)

GGAAGAAAGA AAGAAAGAAA GAAAGAAAGA AAGAAAATGG CCCCATAGTG CTTAAGTCTT CAGACATGTG TCCTGGTGCT
GGGACAGGG CTTCTGACAT TCTCTCAGGT CAGTATTTGC AGGTCATCCA CCTTCGACTT CAACACATGT GACCAGAAAC
CTTCCCAAGG CAGCCATCCA CTTTGCTGTC CCTCGACGG CCATGGCTGA CCACTGCTGC TGCTGTGTAT CCTCGGTGAC
ATCTGGCCTT GGCAGCCTAT GGATTNTGC CATCTCCTG GCATGAAATC ACTCCTTCTT GTTGTTTTAA TTTGCATTTC
TTCACTTACC AGCGCAGTTG AGCATCTTTT CATACACTTA CTGACCACTT CTA

SEQ ID NO:2034: (Length of Sequence = 289 Nucleotides)

CCACCAAGA ACATCAGCT GTCTTATGTC AAATGCTCGA CAATACCTCT CAGTAGGACG TTGTGCAAG GCTAGCTAAT
TTTAAATCTG GTATGAGTAA TACAGTCAA CCTAGTTAGT ATGCGAGAAA GTCGTGCTA ACGCATGGTG AGAGGATGTG
ACGTCACAGC ATGAGCAGTC CCTGGTTGTC CCATTGTGAG ATAAAGTAG TNNAGTAGNT CCAAGTTTCT ATTCCAGGTC
TCTGAACCCC AAAGCCAGGC CTTTCACTT TGCTGGGTGG CCTGGAAGC

434

SEQ ID NO:2035: (Length of Sequence = 290 Nucleotides)

CTTTTCCTTC ATCTGAACAC AGAAGGAGCC ACGGTCTGGA AAGTNTGCCT GTCCTTCCCG GGAGTGGGGA GGCCGGTGTG
AGTTTGTATC TTCCAGCTCA GGCAGACACC TTACACAGTG CAAACAAGAG CCGTGTCAAG ATGAGAGGGA AGCGTAGACC
GCAGACCGT GCAGCTAGGC GGCTGGCTGC TCAGGAGTCC AGCGAGGCTG AGGACATGAG CGTCCCCAGA GGACCCATT
GCACANTGGG CTGATGGCGC CATTTCCTCA AATNGCCATC GGCACCAGCT

SEQ ID NO:2036: (Length of Sequence = 241 Nucleotides)

TTATTTTATA TAAAAAGTGT TTCTGTGATT CTCCAGAGCC CAGGAGTCAG TNCCTGGTGT TGGAGGGACC TGCCCCACT
GGTTCATTTA ACCCTCTGTC TCGTGGCCT NAGAACCTCA GCCAGAAAG CAAGGAGGAA ATCAGAGCAN GAGCCTCATA
CTCTGGTGA TCTATTCACT CTNIGACCTC AGGGGTGACA TATAAGGTCA GTGTTTCTCG TCCCGNCGG ATCTGCACTG
C

SEQ ID NO:2037: (Length of Sequence = 270 Nucleotides)

CTATTATTTT GCATTTTGG TAGAAGGGT GGCTCACCA TGTCGCCAG GCGGTCTCG AACTCCTGAG CTCAAGCGGT
CCACCTGCT CAGCCTCCA AAGTGTGCG ATTACAGGCT TGAGCCACTG CACCTGCCC AACCTTGACT ACTTCTAATA
GGGATGAGTC GAGTAGCAGT TNGGGGCTC CTGTGCGCT GGTCTGCC GAGGCTCCCC TCGCCCCGT CCATGGCTG
TTGTGCACT GCCTTGAGT GCCTTGCCC

SEQ ID NO:2038: (Length of Sequence = 151 Nucleotides)

ATTTTAAATT GAGCATTAG GGAATGCAGC ATTAAATCA GAACTCTGCC AATGCTTTT TCTAGAGGCG TGTGCCATT
TTTTTNTAT ATGAAATNC TGTCCAAGA AAGGCAGGAT TACATCTTT TTTTTTTTT TAGCAGTTTG G

SEQ ID NO:2039: (Length of Sequence = 166 Nucleotides)

TTGTCTGTT ACAACCTCCG TATGACGCCA CGCCACCGC GTTTCAGTC CCGTCGGCT CCTGCACAGN CCACAGCTG
CGCCCGAAG GCCCTGCTG TGGAGAAGCC GGACCCATCC CCGAGGTCCC CAGCGAGGAC ACANACTCCA CGAGAGCAGC
CCCTCC

SEQ ID NO:2040: (Length of Sequence = 362 Nucleotides)

GAAGTACGGT TAAATTAGA TTGACCATA TGAAGATCT TTTACCAGT GGTCTCCAAG AATGCTTCC TTATTATGTT
ATTGGTCATT TTGAGCGTG TGTGTGGTG GGGTGGTTTC TGCTTATAT TCCTTAATA CATGTATAT TTTTGTAAAG
AATGGGAAT TCATTTTAAT GCTTTTAAC ATCTTCACTG GGAAGTGA TAAAGTTAT CTTGACTCTG TACCTTGAGC
CATGTCAAA GTCAGGGGT ACATTTTAGG TATCTAAAA TTACTCTTA ACTTCACAT TCCCTGGGT AGGAAGCTG
TGTTCAGGAG AAATTTCCN GTTCTTCTG GCAATGGCT TA

SEQ ID NO:2041: (Length of Sequence = 360 Nucleotides)

CCTAATTGTA AGTATGAAG TCGAGGAGT CCGTATAAT GGGCCAAGT AGGATGCAAT GCACCAGGTG TATAAGTAGC
TGCAGTCACT CCAGCTTCAA TTCCAGTTC CCAGGCAGAC CTCTCTGGAG CCTGTGAGG ATGTNAGGAC ATAGTCTGAG
GCACATGAAT ATGATGCCA TGACCATAGT TTGGGTGCAT CCTATGTGA TGGGGTGGG GCGTTCATG TGCCCGNTT
GGATGCTGA TCATCTCTT CCTTGAAGT TCCATCTCT GCATCACTC ATGAGGATGC AGTCTCTGTN CTGGAGGTG
TGTGGCTGA ATATGGTGG AAATGGCTG GTGTGTAGGA

SEQ ID NO:2042: (Length of Sequence = 403 Nucleotides)

435

GTTATTGTGTG TTGAGATGG AGTTTCACTT TTNTTGCCCA GGCTGGAGTG CAGTAGCATG ATCTCAGCTC ACTGCAACCT
 CTGCTCCCG GGGCCAAGCG ATTCTCTCC CTCAGCTCC TGAATAGCTG GGAATACAGG TGCCCAACAG CACACCGGC
 CAATTGTGT ATTCTAGTA GAGATGGGGC TTCTTACGT TGGCCAGGCT GGTCTCGAAC TCCTGACCCC AGGCGATTCC
 CCCACCTCAG CCTCCAAAAG CGCTAGGACC ACAGGCGTGA ACCACTGCGC CCACTCGGAA GTAATAGTTA TTAACCAATG
 TGATGGCGG GTGTAGGGAC CCTCGCTGT AATCCAGCA CTTTGGGAGG CCAAGGAGG AGGACCGCC GNGACCAAGA
 GTT

SEQ ID NO:2043: (Length of Sequence = 331 Nucleotides)

CCCGTACGG TGTGGCTCTC AGCAGCCTCA CCACAGGCAC CGCAGCTTTC CCGCTGTGCA CCCAGCTGGG TGTGTGAATC
 CCCCTGGACT GCGCCAGGC CACCTTCATC TCCATGACA AGATGGTCAT CTCCTCAAG GGCAGTCAGA TCTACATGCT
 GACCTCATC ACCGATGGCA TCGTAGGTT CCGAGTGTTC CACTTTTGAC AAGGCGGCCA CCAGCGTCCT CACCACCAGC
 ATGGTCACCA TGGAGCCTGG GTACCTGTTT CTGAGTTCTT GCCTGGGCAA NTCTCTCTC CTCAAGTACA CCGAGAAGCT
 TCAGGAGCCC C

SEQ ID NO:2044: (Length of Sequence = 244 Nucleotides)

ATGGAAGATA CTAAGAGCCT CAGTCTGGAA GCATTTACCT AGGAAGCGCA TATAGACAGA GAAGATCAAG GACTGAGGCC
 TGAGACAGTC AGCACTTAA GGTGAGGGG AGAAGTGCCA AGGAGACAAG GTGAGAACAG CAGAAGAGTA GCCAAGGCCC
 AGGATGTTGC CACAGAAGCC AGGAGAGGTG AGCATGAAA CAGAGGAGGA CCAGCTGCTG GGACAGAAGA GCCATATGGA
 AGAG

SEQ ID NO:2045: (Length of Sequence = 333 Nucleotides)

GTCAGGGATT TGTCATTCT GCTCTGGCC TCTCTGAGG CCTCATAATG GGAGACCAA TCAAAAATGT CCCATGTCAC
 TTGATGGGT ACACTGCCTA CAGAACCTTG AGGTGACTC CTGCTTCACT TCTCAGCTGT TTACCACAGC CCTCCAGGT
 CCAAAGATTG AGGAGCTTTC TCTTCTCTG GAGGAACGT CTCANATTTA GCTTGTGTGT GTTTTGGACA GAGGCTCCAC
 AGCGGTGGCT CTGAGGAAT CCTCACCAGT TTGINCTCTT CCTCTGACA AGCAGCACCT GAGCAGATGC TGAGGCAGTT
 CATTAAACCA GGG

SEQ ID NO:2046: (Length of Sequence = 274 Nucleotides)

GCAGGTTTAT GTTTTATTT ATGTATTNA ACTGACTTAT TTGTGTATCC CACTAGAACA ATACATTAC AATATACITG
 CAGAACTGTG CTGGNGCAT CATGGGAGCA GAGAACTTGT CCAGTGAATA GTTGTGAAG AAAGGAGTAA AATCTCCCC
 AAACCTAAA GGCATCCTT TGTAGTGTG TGCCCATAG GTATGGCTGC TGAGCACCAG GGCTGCTAC CATGCTCCCA
 AGAAGCAGAG TCAGGGAGGC AGACAGCAGG GTTT

SEQ ID NO:2047: (Length of Sequence = 327 Nucleotides)

GGCGCGATG TGCTTTTNTC CTGINTTGC TGCCCGGGAT GCGGAATCTT GAGCCTCGGT GTCGGGTAC AGAGTTGTCC
 TGGTGAOGGG ATGCGGAGGT TTCTCCTTT TTGTTGTGGG GGCGCTGGT GGCAGGGGCA GCTGGTGGCA GGGTTGCCA
 CGCTAATCTC CGAGTCTCTA AGGCACCGT CTTCCTGGA TCCCTCTTGC GCCTGTCCA TAAAGGCAGA CCGCGGGCG
 CGCGCGGCA ACCTGAAATC AGAGCAGGCG TCGTGGGCG TCAGGAACCT TGCTGAGCTT CGCGATCTT TCATGTGTG
 TTCATTT

SEQ ID NO:2048: (Length of Sequence = 241 Nucleotides)

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ACTTTGTGT TCTGATTTTA GGACTCTGGC TGGCCATGIG CTNNNGGTTG CCTCTCCTGC ATTTNCCACT GGATTTCAC
TGCATCGTTT GGAGATACAA AGCGAGCAGT TCTTGGTCAG AACCTCCTC TGCTTTTCAT TGTGTTTGAT AATGGTTACT
GGGTCTTCT CTCAAGGGTA GCAAGGCCAA GCTGATGGCT GCTTGTTTAG GAGGCCATCA GTTCCTTCCT GTGGAGAAGG
G

SEQ ID NO:2049: (Length of Sequence = 269 Nucleotides)

ATTTTATAGTA GAGACAGGGT TTCACCATGT TGGCCAGGCT GGTCCTAAAC TCCTGGCCTC AAGTGAGCCA CCTGCTTTGG
CCTCCCAAAG TGTGAGATT ACAGGTGAGA TATTCTATAT TCATGGATTG AAAGACTCAA TATTGTTAAG ATGTCAGTNC
TTTCTAAAGN GATTTTTTTAG ATGCAACACA ATTCCAATCA AAATCCCAGG NTTTTTTTGT AGCTATCAAT TGATAGATAT
CAACAGCCAG CTGATTCTCA AATTACGT

SEQ ID NO:2050: (Length of Sequence = 170 Nucleotides)

TTTTGAAGAG AACGTCAGTT TAATAAAGCT AAATGGGGAG AATTGAAGTT TGCATTTGAC ATGGTATTAA ACAAACCAA
AGGGCTGAAA CTCATGTTTA GACAACACAG GTCAGTAGTC ACTAGGCAAA GAAAACAGTC CACAGCAGGT GGCACAAATA
ATTCCTATAC

SEQ ID NO:2051: (Length of Sequence = 262 Nucleotides)

CAGGGCACAC GCAGGACCAC TGTGGATTAG AAACCCACAC GTGTCACTCG CAACATTCCT CCCACATCCA CATCCACGAC
GGAGCCAAAT CTCATTTGTC ACCCTCAGTC ACCACCCAC AAGATGGAGC CGCTGGTTAC GACATGGATG ACAGGTGTCA
TGCACAGGGA GAGAATTTNT CCCCGGATAC CCCTGAGGAC CAAGGACCAC CCCAGGCTA GGGTGGGAGG ATTGAGAGCA
GTGCAAGAAA CCAAGGAGGA TN

SEQ ID NO:2052: (Length of Sequence = 325 Nucleotides)

GAAAAAAGAT TGTTTTGTGA GAAAAAGCAA AAACAAAAA GCATTAGAAA GTGGGAGCCA CTGCACAGCA GTAGCCTAGA
GACTGGCTGC GATATGGTAG CTCTGCCTTG ATATCATCTT CGTGCTTCA GGCATAGAGA AATGGCAGAG GAGCAGTAAG
ACCCACAGG AGATGGCCAG AGGNTCCACC ATCAGCCTTC TGGGGACTGA GGAGGTGATC TTAGTGGAAT TATTTTATAC
TCACCTCCCC CGGGGTTTAG TCCITCCTCC AAACACTTAG TTCCAGGGCG CAGGAGACCT GTTACTAGCA CTGTATGTTT
CTTG

SEQ ID NO:2053: (Length of Sequence = 222 Nucleotides)

TTTCAAAATT AGTCCTAAGA GTATAAGCTG TTTTINAGGG CTGTAGCCAG ACTACATAAT GAGCGGTGAA AGCGGCTGCC
TTCCCTCTC CTGACACCAG CAAGGGGGAG GCACCATCAC CGGCCCTGCC CCATCATGCA TCCAATGATT ACTAGCACTA
GANGCAACG GCAAAGNCC CCGCGGCTT GTCGTGTTT AATCCAGGTT AAGCTATACA CG

SEQ ID NO:2054: (Length of Sequence = 341 Nucleotides)

GTAAATTAAG AATATGGCCC CAGAGTTTTG TTTATCTGGG GTCTGAGCAT AGATTTTATA TTCTCTGTTG CGTTTTTTAA
ATCTAACTTT CTGTCTCCAA TGGAGAGAGA ACAGGGAGGA TACAGAAGTA TTGCAGCCCA GATCCCTAT CAGGGGGACA
GCTGGTGGGC AAAGCAGCCA CCCACAGCC TTGTGGCTAG AGTACAGTGG GGTGGACCCT CCAGCCCCAA TAGCCCTAGT
ACCCAGCTGG CAGGGTTGCC CACCCCTGCT GTCCACCTGC TCCATCCTCT AGGGGTCCA CAGGCCCTG ACCGCACAGG
GAGGCTGGGG CCAGCCTGGT C

SEQ ID NO:2055: (Length of Sequence = 258 Nucleotides)

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CTGCTCAGC CTCCCAAGTA GCTGGCATT A CAGGCGCCCA CCACCACACC TGGCTAATTT TTGTATTTTT AGTAGAGACG
 AGGTTTCACT ATGTTGGCCA GGCTGGTCTT GAATTTCTGA CCTGTGATC CGCTGCCTC GGCTCCCAA AGTGTGGGG
 ATTACAGGCG TGACACCAC GCCCGCCAA CTGCTTTTC TCTAATGGCT GCGATGTTA ATTTTTTCAC TGGCTTATTT
 ACCGTCTCT TCTGTGA

SEQ ID NO:2056: (Length of Sequence = 292 Nucleotides)

CTCTTGACTC CGAAGGCTGG TGACAGACAC ATAAGGCAGC TCAAACTCTT GCAACTTCCG TACAAAAGAA AAGGCTCCAT
 CCTCTTTTTC TCGAACTAAG AATAGACTAA AGTATCCAAT CAAGTCATCT GGAAGATCCA GCTTTCAGC TACAGCCTCC
 AGGACATCCT CAGTCTGATC TGAAGTTAGC ACGTTGACCA GAACTTTCTG CCCGTTGCTG AGCAGCACTT CCAAGGACAC
 TTCTCTGTG GGGACCTGCT GTGTCTCTG TTGTGCCGA CGCAGGAAAC TG

SEQ ID NO:2057: (Length of Sequence = 293 Nucleotides)

CCAAAACT TGGGTGCCTG AAGGTGGGT TTTGATCATG GCCAGGCTTC AAATTTAGGT CAGGCTCTGG TGGTACATCC
 TTATATGCTT GGTCCTCAGC ACAGGTCAAG ACACACAATA GACCTCAAT AAATATTTGC TGAATTTGAA CAATTCCTGT
 AAAAATCTCA TTAAGAGACA TCAGCTTGGG ACACAGTTCC TCTCTTACTG TTCTTCTCC CAGAAGCTCC TGGATGAGC
 AGGTCTGGCG GCAGGGGGCA CACAGGGCTG CTGCTCAAT CGGAGAATGG CAC

SEQ ID NO:2058: (Length of Sequence = 172 Nucleotides)

CTTCTACAGT CAAGGAGCTC AAGCTCGCCG GCGACCCCTG CTCTGCCTC CCACATTAAT GGCGGCATCC TCGGAGGATG
 ATATAGACCG GCGGCCCATC CGGAGAGTGC GCTCCAAGAG CGACANGCG TACCTCGCAG AGGCCAGGTT CTCCTTTAAC
 CTGGGGGCAG CT

SEQ ID NO:2059: (Length of Sequence = 245 Nucleotides)

GCAAGANGGC CGAGGGGGCC CAGAACCAGG GCAAGAAGGC CGAGGGTGCT CAGAACCAGG GCAAAAAGT AGAAGGGGCC
 CAGAACCAGG GCAAGANGGC TNAGGGGGCC CAGAACCAGG GCAAGANGGC CGAGGGGTCT CAGAACCAGG GCAAAAAGGC
 CGNGGGAGCC CAGAACCAGG GCCAAAAGG AGAGGGAGCC CAGANTCAGG GTAAAANGAC AGAAGGGGCT CAGGGCAAAA
 AGGCA

SEQ ID NO:2060: (Length of Sequence = 318 Nucleotides)

ATGCCCTGTT AAGGAGCTTG GGCTTGATCC TCTAGGCAGG GAGCCGTTGG AGGATTTAAG CCAGGGAGTG CTGCGGTTGG
 TCACACTGCG CATTTATGTA GATCGTTTGG GCAGCCAGGG GAAGGATGGA TTTNAGGGGG ATGAGATTAG AAAGCTGGGA
 TATGAGTTAG GAGGCTGAAA GATGGTTGAT AAAAAATNATC GTTGGGCAGC CGAGATAACT GACTTCAAGG ACATATACTG
 GACTTATAGC AGAGCCTGTT GAGTCTTGCT TTTGCACACA GTTCAAATAA TCACCTAGTC ATGTGGTTTA TCTTGCCA

SEQ ID NO:2061: (Length of Sequence = 331 Nucleotides)

AAAAATAAAA ATCTATAAAC TACGATCAT AAGCAACTCC TGTTCTGTG GGTTTCACCA CATCTCCAG AAACCTGAAC
 TTGCTCATA AAAATTACAT AGAATGTAAA CTAATTCATT TTTAAAGTA AATGCAAAAC TAAGGGTTAC ACAAGCACTG
 AGCATCAACA CTGACAGAAT ATTAATTCTG AAGCCCATTA ACTTTGACAA ACGTTTATTC ATCTTTGCCT TCTTGAAGCG
 TGTGACTATC CAGTTTTCAG AGGAAAAGCT TAAACAGAAA AAGTTAATA ATAATCTCAA GGTAGNAAA CTAAGACATA
 ATTCTAGCT C

SEQ ID NO:2062: (Length of Sequence = 316 Nucleotides)

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CTAAATCAA CCACATAATT GGACATAAAA GAATCTTCAG CAAATACAAA AGAACCAAAA TCATAACAAA CACACTCTAG
 GGCCACTGCA CAATAAAAAT ACAAGTCAAG ACTAAGAAGA TCACTCAAAA CAATGCAATT ACATGGAAAT TAAGCAACAT
 ACTCTCAAAA TGACTTTTGG GTAAATAATA AAATTAAGGC AGAAATAAAG AAGCTCTTTG AACTAATGA GAAGAAAGAT
 ACAACGTATC AGAAACTCTG GGGTACAGCT AAGGCAGTGA TAAGAGGAAA ATTCTTAGCA CTAAATGCTC ACATTG

SEQ ID NO:2063: (Length of Sequence = 312 Nucleotides)

ATCCATGGCT TTAGCAAGAT CCCAGTGTG GAACTCTCT AGCAACTTGT NTTCATCCAG TGATACTGGT TCTNIGGGGG
 GCACTTACAG GCAGAAGTCC ATGCCCGAAG TGTTGGAGTG AGCCGTAGAT CCCAGCCTC CACTGACAGG CAGAACACCC
 AGTCAGATAT TGGTGGCAGC GGAAAATCCA CGCTAGCTG GCAAAGAAGT GAGGATAGCA TTGCTGACCA GATGGCTTAC
 AGTTATAGAG GACCTCAGGA TTCAATTCT TTTGCTCTG AGCAGCATGA ATATACAGAG CCAACATGCC AT

SEQ ID NO:2064: (Length of Sequence = 294 Nucleotides)

TACCTAAAGA ATCCTCAGAT GGGAGACCCA GCCAGTTTGG NTCACAAATT AGCAGAAGTC AGCCAAAATA TAGAGAACT
 GCGAGTAGAG ACCCAGAAAT TTGAGGCCTG GCTGGCTGAG GTTGAAGGCC GGCTCCAGC ACGCAGCGAG CAGGCGCGCC
 GGCAGAGCGG ACTGTACGAC AGCCAGAAC CCCCCAGT CAACAACINC GNCCAGGACC GTGAGAGCCC AGATGGCAGT
 TACACAGAGG AGCAGAGTCA GGAGAGTINAG ATGAAGGTGC TGGCCACGGA TTTT

SEQ ID NO:2065: (Length of Sequence = 331 Nucleotides)

GAGCTGAGTT TCACCGTGT GCCCAGGCTG GTCTCGAAT CCCGGTCTCA AGTGATCCTC CTACCTCAGC CTCCCAAAGC
 ACTGGGATTA CAGGTGTAAA TCACTGTGCC CAACCTGCTC AACTCTTTG AGAGAAGCAA GTCTCTAGC TGAACGTGAT
 AATGGCTCA AAAGCAGTGT TGACAGCAGA TAATCTTCAC ACAGACAAAT GTCTACAGTT TCTAAATAAG CCAACTGTGC
 ATATGGCTTA CAGGCTCTTC AGCATAACCT ACCCAAAGCT CAGGTTCCCT GAAGGCCAGG ACAGTACCTC GGGCCTTCAA
 GCAGCATTTG G

SEQ ID NO:2066: (Length of Sequence = 321 Nucleotides)

GTCTTGANCT CTTGACCTCA GGTGATCCAC CANCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAG CAACCGCACC
 TGGCCTTGAA CCGTTTGAAG TATTGATGCA AAAACAAGTG GTGAGCTATG GCCAAATTG CAATTCAAAA AGATCCAAGA
 AAGCAAGTTG AACATCTGA TTGGAGATGG GACACACCCA AACGTGTGTC TTGAGGTGGC TGCAAAGTCC TCCGCTCTGA
 GCCAGTNTAA GCAGGTTTTA CCCAGCCCA TGATTTAGAG AGATGTTNAG TGCAGATCCT GAGCTCAGCA GAGAGCAACA
 T

SEQ ID NO:2067: (Length of Sequence = 335 Nucleotides)

CTGGCTCTGT GGCTCAGGCT GGAATGCAGT GGGCGAGGT TGGCTCACTG CAACCTCCAC CTCCTGATCT CAAGNCGTCC
 TCCCACCTCA GCCTCTCAAG TAGCTGGAAC TACAGTGGAA CTACAGGTGG ACAACATCAC ACCCAGCTAA TTTTNTINAT
 TTTTGTAGA GACGGGGTTT CACCTGTGT CCCAGGCTGG TCTCAAATC CTGAGCTCAA GCAATCTGCC CACCTAAGCC
 TCTCAAAGTG CTGGCAITAC AGGCATGAGC CACCGTGCCT GGCTTGGGAA GCTCTTTTAA CAGAGGTGAT GTAAAGTAGA
 AAAAGCAGTG GGCTC

SEQ ID NO:2068: (Length of Sequence = 274 Nucleotides)

GCAACCGAAT GGACAGGGTA AAGAAGGAAT GGAAGAGGC AGAGCTTCAA GCTAAGAACC TCCCAAAGC AGAGAGGCAG
 ACTCTGATTC AGCACTTCCA AGCCATGGTT AAAGCTTTAG AGAAGGAAGC AGCCAGTGAG AAGCAGCAGC TNGTGGAGAC

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CCACCTGGCC CGAGTGAAG CTATGCTGAA TGACCGCCGT CGGATGGCTC TNGAGAACTA CCTGGCTGCC TTGCANTATG
ACCCGCCACG GGCTNATCGN ATTCTNCAGG GCTT

SEQ ID NO:2069: (Length of Sequence = 321 Nucleotides)

GTGCCATCTG TTTACTTCTC AAATGAAAAA GAATTCAGGT CTGAGTGTCC AGGAAAGGGG GTGAATTTCA TAACCGCCTG
TGACAGCGAT GGAAGGAGC CACACCCCTC CAGAGGGTAC CACCCAGCGG ACAAGTGGG AGGAGGAAGT AGCTGGCATG
AAGCGGCCC ACCCAACCTC CGGGAGAGAG GAAAAGGAGA ACACGGGATG AGGAGGCTTT AAATAGTATT TCATAAAATA
AAAATGCCCA GCACTCTTAG GAACCTCTCA TTCAACCGCC TAGTTTTTGT TTAAATAATT CTAATGCCAG AGCTGGGGGG
C

SEQ ID NO:2070: (Length of Sequence = 161 Nucleotides)

AAAGCTGCAT AAAACAAGTT TAAITTCCTA CCAGGGTCAC AGTCATCGCG TTATCCCACA TTGTGAGCAA GGATAGAGAA
GGTGAGTTAT TAAACATATA CAGTCTACAT TCCAGAGGAG GAACTGCAGT TACCACTATA ACACCACAGA CAACTTTGG
G

SEQ ID NO:2071: (Length of Sequence = 288 Nucleotides)

GTGGAAGGCG CTTCATACAT GCTTCCCATC TTCAGGAACA TCAGAGAATT CATACTGGGG AGAAACCATT CAAATGTGAT
ACATGTGGTA AGAACTTCG TCGTAGATCA GCACTTAATA ATCATTGCAT GGTCCACACA GGAGAGAAAC CATACAAATG
TGAGGNCITGT GGTAAAGTGT TCACTGTAG CTCAAACCTT CGTATCCATC AAAGGGTCCA CACAGGAGAG AAACCTTACA
AGTGTGAAGA ATGTGGTAAG TGCTTTATTC AGCCTTCACA ATTCAGG

SEQ ID NO:2072: (Length of Sequence = 284 Nucleotides)

TCTGTCTTC AGACCCCTTT GCGTATTTGT CCTCCTAAC TGGGACCTAA GCTAAGACTC AAGGGCTGCT CCCATGCCCT
TCAGTATCCC CCATAAAATC TAACTACACA TTAGAAACTC AAAGAATAGC ATAGGCATGA TCCATCACCT GCAACAGAAG
CAGTGAGGAG ACTTAAGCCA GGGTTCCTNC AAGGATATNC ACCGACCTT CCTGCATCTC TGNATGCCGG ACTCCTAAGC
ATTACTCAG ATTTTAAACA GCACATAATG CCATGGCGAG GATG

SEQ ID NO:2073: (Length of Sequence = 270 Nucleotides)

GGAGCGATAC GCCCCTGTG CGAAGGACCT GCGTCTAGA GATGTGGTGT CTCGGTCCAT GACTCTGGAG ATCCGAGAAG
GAAGAGGCTG TGCCCTGAG AAAGATCAG TCTACCTGCA GCTGCACCAC CTACCTCCAG AGCAGCTGGC CACGCGCCTG
CCTGGCATTT NANAGACAGC CATGATCTTC GCTGGCGTGG ACGTCAAGAA GGAGCCGATC CCTGTCTCTC CCACCGTGCA
TTATAACATG GCGGGCAATC CCACCAACTA

SEQ ID NO:2074: (Length of Sequence = 278 Nucleotides)

GCACATGCCA TCAGTCCCTGG CTAATTTTTG TATTTTTAGT AGAGACGGGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAT
CTCCTGACCT CAGCTGATCT GCCCACCTCG GCTTCCCAA GTGCTGCGAT TATAGACAGG AGCCACCGNC CCCGACCTC
TCTACITCT CAAATCTCTT TCTTTTTCC ACCTCTTAGG TGTCAAAGAC AGTGGATGGT CTCTGAGGIT CAAAACCAAG
CTGACCGGT AAGTATTTAC AGCAAAGCAT CCAATGGG

SEQ ID NO:2075: (Length of Sequence = 232 Nucleotides)

GTCTCTAGGA TCACTCAA CCCAGGATCA CGTTTTGTA ATGTTATCAA GGCAATGATT TGGATTTAG AGCTGGCCCA
GTGAACAACA AGCAATCAAG CATTCCTTC TCTTCTTC TCTCTCTAC ATATACACAC ACACCTTTC TCTCTACGT

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TACTTTCACT GTCACCTTCT CTCTACTGGA TAACAGGCCA AAAGTACTGG CACTCATCTT TCACTTTCTT CC

SEQ ID NO:2076: (Length of Sequence = 223 Nucleotides)

GTCACGAGGT CAGGAGATCA AGACCATCCT GGCTAACACA GTGAAACCTC ATCTCTGATC TATTCAGGGC TCTNACTTCT
TCCTGGTTTA GTCTTGGGTG GGTGTATGTG TCCAGAAATG TATTGATTTC TTCTAGATTT CTAGTTTATT TGNGTAGAGG
TGTTTATTCT CTGATGGTAG TTGTATTTC TATGGGATCA ACGGTGATAT GCTCTTTATC ATT

SEQ ID NO:2077: (Length of Sequence = 323 Nucleotides)

GTCCCCCTTC CCCTCTTGTG AGACCAGGCT CTGTCTCAGG AACAGGCCTG AGGGAGGAGG AGCCACGTTT CTCCTTCCTT
GGAGCCCTGA GGTGGCCAGG CTGTCCCCAC ATAAGCATG ACATCCAGGT GCCAGCTGGC TAAGAAATGG AGCCTGAGGC
TGCAGCTCAC CACCTGTACC TCACAGATGT CCATTGAGAG GAAAGAAGGG TGCTCCAAAC GCCAGGCCCC CAAGGAGCAC
AGACTCAGGG TCCAGGCAGG TTCAGTGCTA GTAGGCAGGT GGGCACTGCT GTCCAGGAAA ACCTGGTGGG CAGCTGTTTT
CCC

SEQ ID NO:2078: (Length of Sequence = 310 Nucleotides)

AATTTCAGT TGTAAATCA AACCTACTGA CATTATAGT CCCTTACTTT CTCTTCTTTC TTCCATTGTA AATGTCIGAA
ATGTCGTACA GTCATACTTC CCACTGTATT TTTAGGTTTT ACTCTCATAC TTCAATAATC ACTACCACCC TTTATTTCAA
TAAAAGTTTT AAGTCAGTGC TGATTTTTTG GTAGCTCCCA TTTTCTGATA TATTGTTCAT GTACATATGC AAGTGTATGT
AATGTAGGTG TGCATCTATA TATACCCACA TATACATATA TACATATACA TATATATGTC CATATACACG

SEQ ID NO:2079: (Length of Sequence = 281 Nucleotides)

GAGACCTGCC AGAAGATTAA AAAAAAGAAT GAGAGAAAAG CCCAGTTAGT GGTGTGCAAA CTTACTTCCT TTAAATGTCC
CATGGATGTA GGACAGTGCC ATGTTTCAAG ATGCTGTGA GCTAGGTCTT CAAGATTTAT AGAATGTTAC TTATGAACAA
AATATAATTA TTTATGGTAC AATTCTTGTA CTTTAGCAAA TCTGGAGTTA GTTCATAGTC AAAGTCAGTT AATATTTCTT
AGAGGAAAGT TTTGGCTTTT TGTGGCAACA TTTTATAGC T

SEQ ID NO:2080: (Length of Sequence = 311 Nucleotides)

ATTAAAAAGA ATATTATTTA TTATCINCTT TATTAATACT CACATGTAAC CTTTGCTTTT TACACAAAAG TCTGCTTTAG
AAGAATGCCT CCNCGGCTTA TCATGCCCAA TGGGGCTTTT TGTTTCTGGA CCACTTCCCC TTCTCCACC CCCACCCCA
CATCCAAATT ACTCTTAACA TGTTACAGA TACCACGNAT ATTTTGTAAG CAAGNTTTGG GTTACTGGAA CTTGATTTC
TTAACATCCC ACTTCAAAT GGAAGGCAGG TGGAGGGCAG GGTAAGGNAA TAGGGGGAAA GAGGGCAAGA G

SEQ ID NO:2081: (Length of Sequence = 207 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTC CCCCCTAACCT TTTACTTAGC CTTTTTGGTT TGINTCCCCA
CCCCACCTC CTCACCCCTT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCCCTGCTT
CCAGCTCCA GCCTCACCTT TGTGCCAGA CTCGCATTG GAAGACT

SEQ ID NO:2082: (Length of Sequence = 260 Nucleotides)

TTAAAGAAA GTGCATACCT ATTTGCAAGG AAAACAAATG GAATAGACAA AAATTTAGA ATATAAGAC TTTTTTNCAT
TTATGTATGT GTTTACAATT CAAAATAATA AAGCTAGTTA AAAGTCAATA CATATTAGAT ATATTCAAAT ATTTTNC
ATAAATTCG ATCTTATCAG TTAACACCCA TAGCAAAAGA CTAAGGAGTA TTTGTATAAC ATTAGGTAT TTGACCTCAT
ATTCTATTCA TTTGGGTTTA

SEQ ID NO:2083: (Length of Sequence = 257 Nucleotides)

AGTTTCATAT GTTTATTAATA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCCA GTGGCCAGTG
GGGTCAATTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA
ACTAGCTGCT AGGCTCT

SEQ ID NO:2084: (Length of Sequence = 255 Nucleotides)

TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAGCCGA AGGAAAACAC ATTTACAAGA AGCTGAACAA
CTGTATCAG AACATACATC AAGGTGAAGA GTTTCGGCCC TCTTGGTATA GGTATGTAT GTGTACATCT CCAATTTTGA
ACAATGATGA CATAAGNCT AATACTCTAT TTATTCAGGN GACCCCATAA TCAGGATAAT AGTAGGCATT CAGAGTAATA
AAGTGATCAC AGTTG

SEQ ID NO:2085: (Length of Sequence = 290 Nucleotides)

GGACGCACGC TCGCTGCCAT CACCGCTGGG TGGTTTTTTC CCCCTAAGTT TTTACTTAGC CTTTTTGGTT TGTGTCCCCA
CCCCACCTC CTCACCCCTT TTCCAGTTCT TCTTCAGGCC CCTCCAGAC GCACCCAGC GGCCCTGCA GCCCTGCTT
CCAGCTCCA GCCTACCTT TGTGCCAGA CTCGCAATTT GAAGACTCCA CCTCCGCCC AGGCCTGGG TGTGGGGGG
TTGGAGATTC AGGTTTTAAT CCACACAAGC CCCAGTGAGG GGTGAAGCAT

SEQ ID NO:2086: (Length of Sequence = 342 Nucleotides)

AGTTTCATAT GTTTATTAATA CCAAGCATGA GGCCCTTCTG TGCACAGGGC CCTGTGTGAC GGCATGGGAG GCGTGCTCAT
GAGGCTGGGC GTGCCCGCCA GAGACCTTTC TAAAATGCAG ATTCACGACT CTCCTCCTCA AGCCACCCCA GTGGCCAGTG
GGGTCAATTC GGATCAGAGA TTCCTGGAAT AGATCTAACT AAGATGGTAG ATATTATTTT AAATAATGCC TTTTINAGGA
ACTAGCTGCT AGGCTCTCTA TCCTGGGAGA AGAAGGTGAA GGTTCGCAA TATCAATTTT CCCAATCAG CCAAGATTTT
CCCAGCATCT NCAGGACAAG TG

SEQ ID NO:2087: (Length of Sequence = 306 Nucleotides)

TATTATACAG CATTGTCAAG ATTATTTGAC AAAAGGCAGT AACAGCCGA AGAAAACACA TTTACAAGAA GCTGAACAAC
TTGTATCAGA ACATACATCA AGGTGAAGAG TTTCCGCCCT CTGTGTATAG GGTATGTATG TGTACATCTC CAATTTTGA
CAATGATGAC ATAAGNCTA ATACTCTATT TATTCAGGAG ACCCCATAAT CAGGATAATA GTAGGCATTC AGAGTAATAA
AGTGATCACA GTTGAATGAA CGTGTCACC AAAAGTCTTA GACCAACCTG ATATCATCTT ACATT

SEQ ID NO:2088: (Length of Sequence = 326 Nucleotides)

ATTGAATAAC TTAGGCAATC TTCCACTTTG ACTGAAATGA TTAAGATCAG TTTACCGAAA GTCAATTCAT CCTTGCTTG
CAGGCATCTG GCTATCTTG GTGCAGGGCT GATGGGAGCA GGCATGCCC AAGTCTCCGT GGATAAGGGG CTAAAGACTA
TACTTAAAGA TGCCACCTC ACTGCGCTAG ACCGAGGACA GCAACAAGTG TTCAAAGGGT AAGCCTGCTC TCTCTCTTG
CAAGAGTTAG AATGCTCTT GTTCTTGGT TAGTTGTTTT TTGTGGTGGC TTGGTGGGT TTTTGTGTTG TTTGTCTTG
CCATCA

SEQ ID NO:2089: (Length of Sequence = 291 Nucleotides)

GGGTTTCCCT TTCCACTCAT CGGAGATTCA GAGGGATGAG CTGGCACCAG CTGGGACAGG GGTGTCCCGT GAGGCTGTAT
CGGGTCTGCT GATCATGGGA GCGGGCGGAG GCTCCCTCAT CGTCTCTCC ATGCTGCTCC TGCGCAGGAA GAAGCCCTAC

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GGGGCTATCA GCCATGGGTT GGTGGAGGTG GACCCCATGC TGACCCTGGA GGAGCAGCAG CTCGCGAAC TNCAGCGGCA
CGGCTATGAG AACCCCACTT ACCGCTTCCT GGAGGAACGA CCCTGACCCG G

SEQ ID NO:2090: (Length of Sequence = 293 Nucleotides)

TTATGTGGAA TACCACACGC CCTGGTACAT GGCTGAATC TTCCCTTCA TCCTGCTTGG GGTCTTCGGG GGCTTGTGGG
GAACCTCTT CATCCGCTGC AACATCGCCT GGTGCAGGAG GCGCAAGACC ACCAGGCTGG GGAAGTACCC GGTGCTGGAG
GTCATTGTGG TGA CTGCCAT CACTGCCATC ATTGCCTACC CCAATCCCTA CACACGCCAG AGCACCAGCG AGCTCATTTT
TGAGCTGTTT AATGACTGTG GAGCCCTTGA GTCTTCCAG CTCTGTGACT ACA

SEQ ID NO:2091: (Length of Sequence = 274 Nucleotides)

CTTTTGGAAAT GGTCAAACAA TTAAAGTCAA ATGTTTAAAT GGTGCAATTA AAATAAGGGT TCAAACATGT TTTCAATATA
TTAATTNCTT TAAAGTCATG TTCAGGCAAG GTGCTGTTTA AAAAACCCT ATTAGCTTTG TCCACACATG TAAGTTATCA
AAAGTTACCA AGGTAATTTT GACGTTGAAT GCAGCTTTAA ACAATAAAAA AATGGTATTA GGTTTACTTC TCGAAGCAAA
GAGAGCCCC AACCTTGTA ACTAAACATT CTGA

SEQ ID NO:2092: (Length of Sequence = 290 Nucleotides)

GGTACGTAGG ACGCTGGCCC TGTCCTCCGG CCGNTCTGG TCAGACACAA TCATGGTCTC CACCACGAGG TGTGCAATGC
CTGGNAGGGT GGTTCGTCC AGGTCCAGGA GGCAGATCC ATGGGCGATG GTCCTCTGA GCTCCAGAAG GCTACGGAAG
GAGAGCGAGG CAACATGGGG CTTCCTCCAG CGCTCCGTCT CCTCTCCAC GTCCTCTCA AACTTGATCC AGCGGGCCGT
CTCCCGCCAG TGGGGCTCCT GGCTGCGGTC CAGCATCAGC TCGTTCAGCT

SEQ ID NO:2093: (Length of Sequence = 323 Nucleotides)

AGCTACACTG ATACAAGTGG ACCTAAAGAA ACGAGTTCGG CTACTCCGGG ACGAGACTCC AAAACCATCC AAAAGGGATC
AGAAAGTGGG CGTGGGAGGC AGAAATCTCC TGCACAGAGT GACAGCACAA CACAGAGAAG AACTGTAGGC AAAAAACAAC
CCAAAAGGC TGAGAAGGCA GCTGCTGAAG AGCCTCGTGG AGGCCTGAAG ATAGAAAGTG AAACCCCTGT AGACTTGGCT
AGCAGCATGC CCTCCAGCAG ACACAAAGCA GCCACCAAAG GCTCAAGGAA ACCCAATATA AAGAAGGAGT CTAAGTCTTC
CCC

SEQ ID NO:2094: (Length of Sequence = 255 Nucleotides)

AAGGATGTTT TGGTTCCTTG CCTCAAGGCC GGCCATGTGG GAGTTGTATC TGTGGAGTTC ATTGCCCCAG CCTTGAGGGG
AACGTATACT TCCCATTTGG GTCTTTCTCA CAAAGGCCAG CAATTTGGGC CTCGGGTCTG GTGCAGTATC ATAGTAGATC
CTTTCCCTTC CGAAGAGAGC CCTGATAACA TTGAAAAGGG CATGATCAGC TCAAGCAAAA CTGATGATCT CACCTGCCAG
CAAGAGGAAA CTTTT

SEQ ID NO:2095: (Length of Sequence = 305 Nucleotides)

GCACTCCAGC CTGGGCAACA AGAGCGAAAC TCCATCTCAA AAAAACAAAG AAAGAAACTN CTGAAGTCGG GGGCTGCTAG
AGGATTTTCA GGAAGGGTCA ACACAGGCCT CACTTCCAGT CCCTCATTTT CCAGCTCACA GAGTCACCAG AGGGTGAGAA
GCAGAACGTG CCAGCAAAGA GGGAAAAGGC CACAGAACCA CTTTNTCTC AATTACAAAG GGGTGCATTT CAGAGGAGGG
AATAGGGATG GAGAGGAGGA GAAGACCTGC CCAGGAGCCA GATAAATTCA AAGTCACCAA GATGG

SEQ ID NO:2096: (Length of Sequence = 327 Nucleotides)

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CTAGATATAA CTACCTTCT CTATTCCTCA CCTAAATCCT TATACTGCTG ATGACTTTGG AAAATAGTAC AGGGTTTTAC
 AGTCTAATCA TGACAATACA TCTCCAGGNT CCTTGAGCCA AATACATTCC TCAGAATACT TTTTTTAAAA AACTGAAATT
 GATTACTTGT ACTTTGTCAT CACCAAAAAT ATCTGTAGCA AGACATACTG TTCTCAGCAT CCACITCTAC CATCCTCACT
 ATTGTAACTC ACAGTAGACT ATGCCTCCTA CTTTACTGAA AAGATACAAA CCATTACCTA GCAATCATTG TTCCACCTTA
 AACATAT

SEQ ID NO:2097: (Length of Sequence = 296 Nucleotides)

CACCTGCTG AGGTCAATTT CGTCACTGAT GCCTCGGGTC ACATAGGCCC TGATGACCCA GATTTACACAG AGAGGTCAGT
 ACATGGGTCA ACTTCTCTCC CAGGAGGGGC CGGGGCTGGT GGGCCATGCC CACTCCGTGC CACATGCCTA GCATTGAGAG
 CTTTGTAAAG AAGCCCTGTT CTAAATGCTC AGGTCCCACC CTTCTTGTG AAGAGAAGCC ATGGGCTTCC TGCTCCTGTG
 TCACAGTGTG CCACITGAAG GGTTGGCTCTT CCCATTCTT CTTCCATGGG GGCCAG

SEQ ID NO:2098: (Length of Sequence = 324 Nucleotides)

ATTGGTTTIN TTGAGTGTIT TCTTCTTTT NTITGTTTT AACATACTTA CTGCGTATAA AGTCATGCAA AGAAAACAGT
 GCAGACAGTA GATCCTAGTG GATGTGCCAA GGTATTCCAC TCAGAGTCAA TCCCAGGGAA AGAGGGAAAG AGGAAAAGAA
 AGAGAGAATG CGAACCCGAG GCTGCAGGAT GAGGCATGAA GAGTAGAAAT TCCCAGTGCT TTGCTGTGGT CATCAGACGC
 CAAGGGGAGA GAGGCAATNA AGACACACGC TCACGGGGCC CCCAGAGGTG GGTGGGGGGT GCTGGGGGGC GGCACACAGA
 TATG

SEQ ID NO:2099: (Length of Sequence = 299 Nucleotides)

GAAACCGTCA GTAAGGAGCT CTTTATCTTT ACCITCCCAC TCCAAACCTA CTGCTAGCT GTTCTTATCA TTGCCTCCTT
 TTTCTGTGTC AAAAAATGT GTTCCATCTT AATGAACACA TTTCATTAAAT GTCTTCTTA ATGAAGGACA GTCCCTTTCC
 CTGTGCTGTG AATCCCATAG TAATGACATT AGCTTAAGTT TCTGAGCAC TTGCTATCTG CCAGTTCCTC CCATGAATTIA
 TCTGTCTTAA GCITTGCACT ATACCTGTGA AATAGGTGGC AGTAGTTGTC CCACCATAC

SEQ ID NO:2100: (Length of Sequence = 308 Nucleotides)

GGCAGCTTAT TTTGGATTGG TTCACAATGT GGATCAAACA GGAAAATCTG TTATCATCAA CAAGACCAGC AGCACCAGAA
 TINTCCGAGT CTTCCAGCAG TGCAGGCTCC TCAGGNTGCG TGTCCTGCAC CCATCCACCT CTCCAGAGCA CACCCCTAGT
 CTCAGGTGTG GCAGCTGGCT CTCAGGCTG TGTGCTTAT CCAGAGAATG GAATAGGGGG CCAGGTGCT CCCAGCAGCA
 CCAGCTACAT CCTCCTTCCA CTTGAAGCTG CAACAGGCAT CCCGCTGGG AAGCAATCCT TCTTTAAT

SEQ ID NO:2101: (Length of Sequence = 291 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTCTTAC ATGINTTGGT AGATAAATGT
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGG TGATATGGCT
 TTGGNGCCCA CGCATAGGAC TTCCACAGAA CTTTTTCAAA GGCAATCACC C

SEQ ID NO:2102: (Length of Sequence = 323 Nucleotides)

GATGATGATT GCATGGGGTT TGATGCTACA CTGGATCATA GAGTGTGGGT TCTTCTTAC ATGINTTGGT AGATAAATGT
 CATAGACTGA TCCTGAATCC ACATCAACAG CATGGAATCC AGCACAGGAT CCATAGATCA CTTTCAACCT CTGGCCTTCC
 TCAACAGTGA GATCCACCAG TAATGGCTTA TGTACCAATT CTCCAAATGA CTTAAAGGCC ATAAATTTGT GATATGGCTT

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TGGTGCCAC GCATAGACTT CCACAGAACT CTTCAAAGCA ATCACCAGAA ATTTGATTCT TTCATATTTT ACAACTTTAT
AAT

SEQ ID NO:2103: (Length of Sequence = 270 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT NTGACTNGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG

SEQ ID NO:2104: (Length of Sequence = 367 Nucleotides)

CCTTTCACCTC CCCCGCCCTG GGCCTCTGCT CTCTTGCCCTG GNTTCCTTCT TTTTGTAGGG AAAGAGGGTG GGGCTGCAGG
CAGTCTACTG GCAGGACGGG AGGCTGAGTC CTCAGGGTCT CACACCCTCA GTGCTGATGC CATGCCAACT GCCTGGGACA
ACACCAACAC GTAAGGACCT AATTAAACCA AACCAGAGTC GGGTGTAGAC CAGCCCTGGG ATTTCCAGCT GTGACTGGGC
CAGGGCACAC GTTGGTCTCG GCAGTGGCTG TAAGGTACCC TTCCTTCTC TGGATGCTGG TTTCAACCAT CTATATATGG
CATCCACGCA TGGGATCTGC AAGCTGGAGC CCTCCTACCC GCAGCTT

SEQ ID NO:2105: (Length of Sequence = 288 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCTGTGGT GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCTCANAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTCTCCC TTGTACTTTT TTTTGACCTG
GNATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTG

SEQ ID NO:2106: (Length of Sequence = 349 Nucleotides)

GCAAAATTAC TGAACTACT ACTTTGGGCT CAGAACGAGC TGGACCAGAA GAAAGTAAAA TATCCCAAAA TGACAGACCT
CAGCAAGGGT GTGATTGAGG AGCCCAAGTA GCGCCTGCNC TTGCTGTGGT GATCCAACAC CAGCCCTGCG TCGTGGGACT
TGCTCAGAT CAGCCTGCGA CTGCAAGATT CTTACTGCAG TAGAGAACTC TTTTCTCCC TTGTACTTTT TTTTGACCTG
GCATCTTTT ATAGGGAAAA ATGGCCTTTG TAGGCAGTGG AAAACTTGCA AGGAAAGCTG CCGTCTCTTT TGGCAGTCTT
GATGCAGAGC CTGCACTCTG GCACTCGCT

SEQ ID NO:2107: (Length of Sequence = 329 Nucleotides)

GTGACAAGCT CCAGAAGCCC GNTTCGCAAC ANCCAGGAGG GCCAGGCCAC TCCAGGCAGG AGGCAGTGGG CTGGCAGCCA
CCCTGGGCAC AGAAGAGCAG ACGCAGACAG TGCTGGGCAA CGAGGGGCTT TTTTCATGGG CCCGCTGCC CTGTCCCTCC
CCCCAGGTCC CCACCTTCTA GGGTTAAAGT GCAGCTGGGA GGGAGGAGGC AGGCAGAAAT NGGGAGCTAG AGAGAGCCCA
AGTGAACCTT GACTGTCCAC GCAAGTCCCA TGTCCTCCTC GTCTGGAGT TCCTCGAGGT TCAGCGAGCC CATCCGCTT
AGGGCTCT

SEQ ID NO:2108: (Length of Sequence = 261 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTAAG GCTCATGATT TAAACTCTGT AGTCACTGCT GGCTTGAA
CCTCTAACTC TCTCTGCTC TTGACAGTGT TCCCTCAAGG GAGTCCATTA GCCAGGACTA GGTACATGC CCTGTGTGTA
GCTGTGAGGG ACAAGGCAGA G

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SEQ ID NO:2109: (Length of Sequence = 329 Nucleotides)

TTTTCATGGC AGCCTGAGCA GACTAAGACA GCAGCTAACA CAGCAAGATC ATACCAGTTA ACCTTCCTGG TTAGAAGACC
 TGAGCCTCCT GACTTCCGGT CACTGGATAC TCTCTGTTAG GCTCATGATT TAAACTCTGT AGTCACCTGT GGCTTGGAAA
 CCTCTAATC TCTCTGCCCTC TTGACAGTGT TCCCTCAAGG GAGTCATTGA GCCAGGACTA GGTTCATATC CCCTGTGTTA
 GCTGTGAGGG ACAAGGCAGA GAAATAACTG CCCAAGTTCA GCTTCCCATA ATGTTTGGGG GATGCTATGA CTCAACTTTG
 ATCTATTTT

SEQ ID NO:2110: (Length of Sequence = 271 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTGG CCCAGGGCCA CCCTGCCCTG
 AGGTCCTTGT GTGGCCGCC TGGCTTGGCA GCGCTGCCCA CGCTGCCCC GCAAACAATG GTGTGTGCGT TTTTACAGCC
 CTTTITAGGA ACCCAATATG GGCATAAATG TAACACCTGT AGCGGGGGCA GATCTCTGT ATGTNCAGTT AACAAATTAT
 TTGTAATGTA TTTTITTAGA AATCTTAAAA T

SEQ ID NO:2111: (Length of Sequence = 315 Nucleotides)

GGCTTGAGCA GACAGAACGG GGAAGACTCC ACTCTGTCCC GAGGGGCCAG CCGCAGTTNC NCCCAGGGCC ACCCTGCCCT
 GAGGTCCTTG GTGGCCGCC CTGGCTTGGC AGCCTGCCCA ACCTGCCCC CGCAAACAAT GGTGTGTGCG TTTTACAGC
 CCTTTTITAGG AACCAATAT GGCATAAAT GTAACACCTG TAGCGGGGCA AGATTCTCTG TATGTNCAGT TAACAAATTA
 TTTGTAATGT ATTTTITTAG AATCTTAAAA ATTCCTTTG CACTGAAGTA TTTTCATAGC TGTITATATC TCTTT

SEQ ID NO:2112: (Length of Sequence = 275 Nucleotides)

GCAAGANAGA CCAAAACCTA ACCTGAGTTA CAAGAAACAA GACAGTAATG GCTATAAAGG GAGTGACCAG GAGCAACTGG
 GACACTCCTT TACCTCCCAT ATCCAATGTA TGTTTTTAC AGAAAAACAA CAAAATTAAC AAATTCACAA AATACAACAG
 CTAGAATTAC AAAATCCATT CATCCAAGGG TGGTAGAAGG CAGGATGNA AGGTGGAAGG GTAAATNGCA CAGGGAGAAA
 AACAAAGTGT TCCAATCAGT CCAGGCACAG GGAAT

SEQ ID NO:2113: (Length of Sequence = 227 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
 TCCAGTGAGG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
 CTCGCAGGGC AGGGCATCTT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGT

SEQ ID NO:2114: (Length of Sequence = 339 Nucleotides)

GGCGCATCAG TGGGGGGTGC TGTCAAAATT AGTGAAATCA GATACAGTTG ATGGGCAGGG AGGGTGGGGT AAGAGACAAC
 TCCAGTGAGG TGCCAGGTGG GCAGGCTCCC ACTGTTCACT TGAGACGCTC CTCCCCACTC AGGTGGGGAC AGGGGACACA
 CTCGCAGGGC AGGGCATCTT GGAGGTGTGG GTACAGGTGA GGGGAAATGG GAGGCACAGC CAGGAGTGGG GCAGGAGGGA
 AGGCCAGTTC GTNGGCAGGC TGAGGAGGGA ATATNACCCC CCTCAAGTCC CCAAAGTGGC AGGCAAGTTA AGGGGCCCTG
 GATGAGGTGG CCCCCTCATG

SEQ ID NO:2115: (Length of Sequence = 262 Nucleotides)

TGGAACACAA AATTCCTTGT NTTAACAATT TACATTCGGG GCCTAGCTGC CCTTGAGGAT GTCCTAGTTA CACCCTCTCT
 GATACCTGTG GAGTTTAAAGC ACCATTCCTA CCGCTGTGTC CCTTNGGAGG GGTGTCAGTG GAAGCTCTTA AAGGGGAATG
 CTGTCTCTGC CTCTGTGGCT TTTTGTGTGG GAAAGGGAGT TNGGATNGA GGATTTAGAT TTNAGGTGAT GATGTCAGAG
 CACACCAGGA ACTCCAAGG CT

SEQ ID NO:2116: (Length of Sequence = 153 Nucleotides)

AAGAAGCGAA GAGGATTGCT GAGCTGGAGC AGCGCAANAC ACGGTGCTGG TGACAGAACT CAAAGCCAAG CTCCATGAGG
AGAAGATGAA GGAGCTGCAG GCTGTGAGGG AGAACCTTAT CAAGCAGCAC GNGCAGGAAA TGTCAAGGAC GGT

SEQ ID NO:2117: (Length of Sequence = 231 Nucleotides)

GAATATAATG TGTATCTINCA AGGNTGATC CACCCTINCC CATCCTNTGG AGCTCAGAGA TTCTTGGGAG CTGAAGGTCT
TCTTAATGTC AGATCAGCAA CCCCAATCTC AGGCAGCTCG GATTGCTGTC TCTCGATCTN CCGCTGGCCA ATGTAAAACC
AGACGCAGGC GACCCAGTGC GCGACAGGGC GAACACGGCC ATGAGCAGTG TCAGCACCAC GCGCTGTAC T

SEQ ID NO:2118: (Length of Sequence = 309 Nucleotides)

CGGGAAGAA CAAATGGAA TGGTGGGGGA TATGGGTGTG TGGTGGGGGC GGGGCAGGAG GTCCCTCCGG GTCCAGCATG
GGTGGGAGT GGGAGCAGGA CAGAAGGTGG CCACGTCACA GCGACTGAT GCTCAGCTCA AGGGGAGTGT GAAGAGGTTG
GCAAAGAGCT GGGGAGCCGG GCAGAGGGAC AACACTGACT NAGGACATTN CAGTTGGGAA TCAGAAAAAA AGGGGCAGCT
CAGGGGCATC TGATCTGCCT CATTTTGTAA AAAGAAACAG AGTAATGTAC AAAATTCTGG ATATCTTCT

SEQ ID NO:2119: (Length of Sequence = 308 Nucleotides)

GGTAATCGTT GAAGATTACC AAAGGTTTAT TTGGAATGAC ACAGCACTGA AAACATAATT GTTACAGATG ATTTGTGGAT
ACAGCATACA CCATCTATTT TACTTTAGAA CAATCTGTGA AGATGAGTTG CATAAATAGA AAGAGGTGGA AATATAGAGG
AGCTGTTTTT ATAGTGTCTT TTTGGGGTA GATGAATATG CCCCATCTTT CTACCCAATC TCATAAAGGC AGAAGAGAAG
ACTGCTTAGC TGCCCATCCC AACTAGCCTA CCTCCAGCCA CAGCGGCTGG ACAGCTAGAT AAATCAGG

SEQ ID NO:2120: (Length of Sequence = 237 Nucleotides)

CCGCTCTCCT GACGGGAGCC CACTAGGGGG TCCTCTTTCA TCTTTGGTGT GGCCTTACCT CCCACCPAAG AGATCCGAGG
CTTACTCTTC TCTCTCTGGG ACCAGCATGA CCCAGGAGTC CTTCCAGGAG AGCTCTGTGA AGGAGCTGAG GCGGCTGGAG
GACCAGCTGG CCGGCTGCA GCAGGAGCTG GCGGCTCTGG CACTGAAGCA GAGCTCGGTG GCGGAAGAAG TGGGCT

SEQ ID NO:2121: (Length of Sequence = 224 Nucleotides)

GCGTCAGAG GCTGAGGCCA GAGAGGTAGC AGCGGAACIN ACAGGGAGGC CAGGGGCAGA GCTGACCCTG GAGAGGGATC
CTNATGTCCT AGACACATGG TTTTNTCTG CCTGTTCCT CTTTNTGCC CTGGGCTGGC CCCAAGAGAC CCCAGACCTT
GCTCGTTTCT ACCCCTGIN ANTTTGGAA ACGGGCAGCG ACCTTCTGCT GTTCTGGGTG GGCC

SEQ ID NO:2122: (Length of Sequence = 202 Nucleotides)

CAGCTGCAGC TTCCAACCA GAAACCTCA AAGCATTAGG GAAGGAGCAG GTGTGGGGCT GGGGTGGGA GAATCCCCTA
AGCTCCAGGG CCCAGGTCT AACCTGAGAG GTCGGGGCTG CAGGAAGCTG GGGGAGGCTC CCGGGGCTGG GGGAAGAGGA
GCCTGCCCCC AGCAGAAACA GCAGGTCTCA GCGGCTACAT GT

SEQ ID NO:2123: (Length of Sequence = 359 Nucleotides)

ATTCTCCTCT GTTCTCTTGA TGTGTAGGGA AATTTGAAGA ATGACTCTGA TAAAAATCTA AAAGAGAAAC ATCGAATCCT
AACTGGCTGT GTGACCTAA AACCTTACTC CGTCTCTTG AACCTCAGAT TTCTCAGGC TTGGCACATA GCAAGCATTT
CATACTCAGA AGCTGGTACT ATTACTGTTG TGTTTTGTGG GGGGAGGTTT GTTGTGTTTG TTTGGAGACA GGATCTGGCT

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TTGTTGCCCT GGCTGGAGTG AAGTGGCGCC ATCATAGCTC ACTGCAGCCT CGCCCTCCTG GGCTCCAGCG ATCCTCCCGC
CTCAGTCTCC CGAGTAGCTG GGACCACCTG CGGATGCCG

SEQ ID NO:2124: (Length of Sequence = 233 Nucleotides)

GAAACGCCGT GCATCTCTTG TCTGTTGGCA GCGAGCACAT CGTNTGGAGA CACGAGTTTC TAAGCAGCTG GCACGAGGGC
TGCTGACGGC ATGGGTCTG CTTGAGGGTG GCAATACCTC TTAGGAACCT AGGGCAGGAA GCAATACTTC AGCATTGAAT
GTGTGTAAAT AGTTGCTTTG AGTTGCAATT GCTATTINCT TCTCAGTCCC AGCTCAGATC GAATTATATA TCC

SEQ ID NO:2125: (Length of Sequence = 241 Nucleotides)

GCCATGGCTT TTGGTCAGGT TCAGGGGGGC TGAGGGGGTG CTCCTCCCTT CCCCCAGGC ACTGACACAT TGAAAGGAAG
CAGAGCAACA ATGACACAGC ACGGATGTGG GAAAGGGGAT CCCCCACGG GGCAGGATGG TCCATCTCAC CGGGGTCTCA
CCAGGACTCC CCGCTCCAC CCAGGGCCAG CACGAGCACC TCCCGTTTTT TCCCCAGTGC AGAGCGTGGG GTGACAGGAG
T

SEQ ID NO:2126: (Length of Sequence = 275 Nucleotides)

GTGTGCCCTC TTGCTGTGTC TTAATTCTATA AGGAGTTGTA TCTTCCCACC TGCATTTCAA TACTGCCGGT TAGGACCTAA
GTAGAAGAGC AGTAAAGGCT GATTGACACA CAGGGGGATG GAGTTGGTCC TTGTCCATTC TCTACCCCTT GCTGTGCATG
TATCAATCCT TATCCAGAA GGTACTATTT AGACTGTATA GACTGATTTA GATTACATAC TTTAGAGGAT TAAGGAAACC
ATAGAGTTTG GGCCTTGGAA CTGTACTGTC CTGT

SEQ ID NO:2127: (Length of Sequence = 296 Nucleotides)

TTCAGCCTTA TCGAAACACA TGAAGCAAAA CCATTGAAAC TGTATGTGTA CAACACAGAC ACTGATAACT GTCGAGAAGT
GATTATTACA CCAAATTCG CATGGGGTGG AGAAGGCAGC CTAGGATGTG GCATTGGATA TGGTTATTTG CATCGAATAC
CTACACGCCC ATTTGAGGAA GGAAAGAAA TTINTCTTCC AGGACAAATG GCTGGTACAC CTATTACACC TCTTAAAGAT
GGGTTTACAG AGGTCCAGCT GTCTCAGTT AATCCCCCGT CTTTGTACAC ACCAGG

SEQ ID NO:2128: (Length of Sequence = 322 Nucleotides)

GCATGGGAGG GAGGAAGAGA GGTTGGGGT GCGGTGGCAG GTGATATAGG GAAAGGGCTC ACGTTTCAGA ATCTGTGAAC
AATTCCATTT TTCATCAGAT AGCAGAACA CTACAACAGC AAAACCTAGA ACATCTCAGA CAGCAGCTCT TGGAGCAGCA
ACAGCCTCAA AAGGCCACTC CTCAGGATAG TCAGGAAGGA ACCTTTGGGT CAGAGCATTC AGCGTCACCA TCACAAGGGA
GTAGTCAGCA GCATTTTCTT GAACCTGAAG TCAATTTGGG ATGATTCCAT AGATATTGAG CAACAGGATA TGGATATAGG
AT

SEQ ID NO:2129: (Length of Sequence = 222 Nucleotides)

TTTAGTGGGT CTGGGGTGGG CGGGCCCCC GGCTAACGGG GCGGGTCTCC TCCTCTAGGC GCAGGAGTGC GCGGTGCTCT
CCAGGCCTCC CCGGCTAGGT GGAGGTGAC ACGCAAGC ACACGCTCT ACCGAGGCGG GGCCAGGCG GCACCAGCCC
CTCCCCAGAT GGAAGTGCCC GGCAGACAGC TGCCCAAGAC CTCACAGAAC AAAGATGGAC AT

SEQ ID NO:2130: (Length of Sequence = 191 Nucleotides)

GTGGGATGCT TTATTTCACT GTGGCGGGG GGAACCTGG ACAGGGGGG GCAGGCGGG TGGGNGGCTG GCACTCAGGC
GGGACTAGG CAGGGGAAGG GCTGCCCCA GGCTGTGTA GGAGAACTN AGGCCAGCCC TGGCGGAGAC CTAGCCCCAGC
GGGTAAGGA GGGTGGGGGA AACTGGGTC T

SEQ ID NO:2131: (Length of Sequence = 280 Nucleotides)

CTGAGTCTTG TCGATCCCGA CCAGGAAGAG CAGCTCAGCC AGGAAGAGGT TGATGCACAG GTTCTTGTGG ATGGTGTTCG
GGTGGTCTG CAGCCCCCGC AGAAGCAGAA GGTGGAGATG CAGATGGCCA AGCAGACCAG GGAGATCACA ATGCCACCCC
AGGTGATGAC CGACAGCAGC AGCTCGTIGA TCGGGCCCTG GTAGATCTCA CGGTGAGCCA TGAGCACAGC GAAGTTGGTG
AGGTGGCTGC AGGCACACGT GGTATGGGTC TTGTTGGAAT

SEQ ID NO:2132: (Length of Sequence = 201 Nucleotides)

ATCCCCACAC CATTCCTGTC TCCTCCCATG GGGCTTTAGC TCCCCTGACC ATCTGCTCAT GTAGCCTCTG ACTGGGCGCA
CAGTGGTGCA GGAGGAAGGA CCGGGAACCC TGTGTGGCTT TGGGCAAGCT GACAAACCCG TCTGGAATC AGTTTCCCCA
GCTGTGAAAT GGGGCCAGTC CCCATGCCCT GCTGTCTCC T

SEQ ID NO:2133: (Length of Sequence = 180 Nucleotides)

GATGAAAATG TTGTGACCAG AGGCTTGCCA TINCCTAACT CTATTTGCCA GAGGAGCAAT AGTCTGTAT TCGCTAATTT
TGTGTTTACA GAGACTTTAA GGAACATGAC TGTGGGAAT AACAGAATT AAAGGTATTT ATTTACTTNC TCTATATGAT
TGTAATATTA TACCCATACT

SEQ ID NO:2134: (Length of Sequence = 302 Nucleotides)

ATGAACAAAC GGGACTATAT GAACACTTCG GTACAGGAGC CCCCTCTTGA CTACTCCTTC AGAAGCATCC ACGTCATTCA
AGATCTGGTA AATGAGGAGC CAAGGACAGG ACTACGACCA CTGAAGCGTT CAAAGTCGGG GAAATCACTG ACCCAGTCCC
TGTGGCTGAA TAACAATGTT CTCAATGATC TGAGAGACTT CAACCAGGTG GCTTCACAGC TGTGGAGCA CCCAGAGAAC
CTGGCCTGGT TCGACCTGTC CTTTAATGAC CTGACTTCCA TTGACCCGTG CTAACAACCT TT

SEQ ID NO:2135: (Length of Sequence = 291 Nucleotides)

TCCTACCAAT CTGACATTCA CTATCAACCA CTCTTGACA CATGTCATAG AAAAGTGACA TCTCTTTCCC TTCAACCAAT
ATATCCTCCA ACAACATCAA CCTCAACAGG TAGCTAGCAT TGCTTCTGT TGAAATTAG AGCTGGAAGA AAGGATTTCA
CAATCTCTCT GTGGAGACCC AGGAATCCGT TACCTTCTGG GATTTTAGAG AGTGTGGAGA GAGATGAGCA GGCAGTGAGC
CGGGGACCAA CTCGATAAG AATATGAAGT CAGGAAGTGA GAGAGGAAAC G

SEQ ID NO:2136: (Length of Sequence = 282 Nucleotides)

GCTGTACAAG GTCTTTTCTT TTGTTGTAT GGTGATTTT GTACATTTCA GCATTTGCAT CATACAAAGG GGGGAGCAAC
AGCCATGGCT TTTGGTCAGG TTCAGGGGGG CTGAGGGGGT GCTCCTCCCC TCCCCCAGG CACTGACACA TTGAAAGGAA
GCAGAGCAAC AATGACACAG CACGGATGTG GGAAAGGGGA TCCCCACGC GGGCAGGATG GTCCATCTCA CCGGGGTCTC
ACCAGGACTC CCGCTCCCA CCCAGGGCCA GCACGAGCAC CT

SEQ ID NO:2137: (Length of Sequence = 322 Nucleotides)

GAATTGACAA CATATTGCCA AAATCTTAGT GGATTTTGCC AACACTATTG TGCTGATAGG AAAAAAGAAT CAITCAGCTA
CTTTCCAATT TAGCCACAAA ATAGGCTCTT TTTTCTTCAT TACTACTTTA ACCAGTATGT TAATACTGAA AATAGGTATA
AAGAAATCAC AAATAACCTT CTCTGTGTG AAGGAAATTT AAAATAGCAC ACTTAAATG AAAGTNAAGG GAACTTTAAT
TCACTACTGT AATTTTTTAA TGCTGTATC ATGTAGTGT TGCACAGTT TAACCTTAGT TTACCATCTC TTACTCCTTA
GT

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SEQ ID NO:2138: (Length of Sequence = 305 Nucleotides)

ATGCTGAGTC GCAGITCCGA TGTCTTATG CTCCATCAG CAAATCTCAA TTGTCAAGA TTCATGACAG ATTCTTCCCC
AGCGTTTGGT TTAATTGGAG GGACTTTATC TCCAGGCTTG CATGACTCTT CGATGCTCAG GGCACATGCC CGACCAAAGA
CAACCAGGTC CAAGAGCGAG TTINCCCCGA GGCGGTTGGC ACCATGTACC GAGGCACAGG CGGCTTCCCC ACAGGCGTAC
AGGCCGGGCA CAATCTGATC CTGGCCATTC ACGTGCTCA GGACCTGCCC CTGTAGTTG GTGGG

SEQ ID NO:2139: (Length of Sequence = 263 Nucleotides)

CGCCCCCAG CAACAGCTTC AGCCCTCTCC ACCAAGCTTG CCATCAAGGA GATTGCACCA CTGCACTCCA GCCTGGGTGA
CAGAGTTAAG ACTCTCATGG GGACACTACT GTTCAAAGG CCCTGGCCAA ATAACCTCCA AATGAAACAC TCAACCCAAG
GATGTTTTCA GCCCACTGTT AGTGAAGCTG GGTGCAGAAT GCAAAGCCTC TAAAAGGAGA GGATACAAAG TCAGGTGAGT
AGGGGCCATT GGCAATGCTC AGA

SEQ ID NO:2140: (Length of Sequence = 255 Nucleotides)

CTGCTICANT CTGCGCCCT CAGCTGTGC TTCCCGCAT GCCCTGTGAC CCCAAGCCGC AGGTACAGGA AAGAAGTTTG
TGCTGGGGGA CTCAAAGACC CAGAGGTAA TTAACAGGAA CCAGGSCCAG GGGCCTTCAT CTAGAGGTCA GTGGAGTCTC
CAGGGCACTC ATCACTGTGG CTGGGAGACT ACAGTGTCTC GGCTGCGAC TTGTGGAAGA AGAGGGGGAA GGATGGGAGA
AGGGGTGACT GGATG

SEQ ID NO:2141: (Length of Sequence = 355 Nucleotides)

TTTAATTAAA TACCACTTCA TAATGTATTT TGCACCTAGT ACTTTTTTTT TTTAAATAA GACATGCCAT AAGTOGTGAA
GTTAACAAAA TATAAGCATC CGCACAGAAT ATATTCTAAG GTGACTTCAT TTACACCGCT TCTCAGAGAA ACACACAAGT
AACCTTTTGT CTGCTATCA GCCAGTGTG AAACAGCTTT GGAATTCACA TGGAAAGGCTG CCGGGCTGGT TCCCCAACAC
TNGCCTGATG GAGTCCGTGA TCCGNACCGT GCCGTCAAAC TGGCTGGTTT CCACTAGAAA AGCAATGGAG AGTCAGCTCT
CCCTCTTTTA CCCAGCGTTC AACTCCACAC TGCAA

SEQ ID NO:2142: (Length of Sequence = 391 Nucleotides)

CTGCTAAGTG CCATGAGACC TTAGCAGAGG CTGTGGGTGC CCCGCCCAT TCCCTEACT CACTCTTCTT TGCAGGTGGA
CCTGCCCTTC TTGTCTGAGG CCTTCTCTG CCTCCAGAGC CTGCTTGGT CTACGGCTGT AAGTGCAGGC AGAGCTAATG
TCTCTCCATA GCTGCCCTCC ACCAGCCTGC TCCTGAGACA CTGCTGGCC AGCAGCCTGA AGCAGAATCC TTTACTCAGA
TTCAGCCGCA CAGATGCTCA CTGCAGAGAT CTCCAAGGNC TGTGGTCAIC CTTGAGCCCA TCTCAGATTT GTGTGGATAG
GGTGTAGAG AACATGGAAT CAGCTGGATA GAGTGGTTCA TGCTGTAAAT NCCAGCACTT TTGGGAGGCT T

SEQ ID NO:2143: (Length of Sequence = 326 Nucleotides)

GATGCAGAAC AGCTTCTTGC AGAAGCACCT GCTCCGGCAT CCAGCGCTGC CTGGAGGCAG GAAGGAGAGG CAGGGCAGGA
CAGCTGGTTC TGAGATGAGG GGGAGCCCCA CGGGCCCCAG GCAGGCTAGA GGAGGCACAG GGCCTGCCAC GGCCAACTCA
GGTCAGCCAG CCTGAGGCTG TGGCTCCAA AGGTCTGGG CGCACCCCCC AGGTGCGAGG TINTGTAGGC CAGCCAACTT
GCAGAGCACT CGCGCGTGG GTGGGCTGAG TGGAGGTGCC TGGGAAGCTG CCTAAATTCA GAAGCCTCCA CTTGCCATGG
AGACTG

SEQ ID NO:2144: (Length of Sequence = 357 Nucleotides)

GCACCGGGCC CCAGGAGCCC ATCAGTGACA GAGTGCTCCA TGATGATGTC CTCCACCCCG GTGATGTACA GCAGCGTCAN
AGCACCCCA GGAAGTGGGA NAGCAGGATG CCCAGGAGGA TGCCCGCCAT GATGGTGTAG TTGTCCATGA ACCAGATGAT

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CACGGCGTGT GTGCAGCCCC GCACGTAGAT GACATCCTGC AACTGAAAC GCTCCTTGTC GATAGTTTIN TAGCCACACA
 TGGTGTGAC AACTTCTGTC GTGTTCTGA TGCAGCAGGT GTAGGGCACC CCACAGGCCA GGGGTCCAGG GGCAGTGCAG
 TCGTGGTACT GATTCTTGCT CCAATCTCGG TAGTCCT

SEQ ID NO:2145: (Length of Sequence = 420 Nucleotides)

CGCCAGGAGC TGCTAGCCAA AGCATTGGAG ACCCTACTGC TGAATGGAGT GCTAACCCTG GTGCTAGAGG AGGATGGAAC
 TGCAGTGGAC AGTGAGGACT TCTCCAGCT GCTGGAGGAT GACACGTGCC TGATGGTGTG GCAGTCTGGT CAGAGCTGGA
 GCCCTACAAG GAGTGGAGTG CTGTCATATG GCCTGGGACG GGAGAGGCCC AAGCACAGCA AGGACATCGC CCGATTCAAC
 TTGACGTGT ACAAGCAAAA CCTTCGAGAC CTCCTTGGCA GCCTGAATGT CAAAGCCACA TTCTACGGGC TCTACTCTAT
 GAGTTGTGAC TTCAAGGAC TTGGCCCAA AGAAAGTACT CAGGGAGCTC CTTCGTTTGG ACCTCCACAC TTCTGCAAGG
 CCTGGGCCAT ATGTTGCTGG

SEQ ID NO:2146: (Length of Sequence = 390 Nucleotides)

CCCAAATACT GTTCCCAAA CTATGTCGGG CGGCCGAAGC ACATGCGGGT NATGGCTGGA GCCCTGGAGG GGGACCTCTT
 CATCGGACCA AAAGCAGAGG AGCACCGGGG GCTGCTGACC ATCCGCTACC CCATGGAGCA CGGCGTGGTG CGAGACTINGA
 ACGACATGGA ACGCATCTNG CAGTACGTCT ACTCCAAGGT TCAGCTGCAG ACCTTCTCGG AGGAGCATCC TGTGCTCCTC
 ACGGAGGCCC CGCTCAACCC GAGTAAGAAC CGGGAGAAGG CGGCAGAGGT GTTCTTTGAG ACCTCAACG TGCCGGCCCT
 GTTCATCTCC ATGCAGGCTG TTCTCAGTCT GTACGNAACA GGACGCACGA CAGGAGTGGT TCTAGACTCA

SEQ ID NO:2147: (Length of Sequence = 219 Nucleotides)

TTTGTGGTGT GAGAGAACT GGTTCTCTGC CCGGCTCTGC TTGGTCACAG ACAGCTCCAG CAAGAGCAGT TGTAAAAAGT
 GCCAAGCGTG TGTATCACTG TGACAAGCG TTGTCTTACT GCCCTGTTCC CTTCAGCCA AACCAGCTGA TGAAGAACTG
 CTGCCAGNG GGTCTACAG CAGGTCACAA ATGACCTAGT TTCATTTTAA GCAGACAGA

SEQ ID NO:2148: (Length of Sequence = 353 Nucleotides)

GAAATCTTTA TTACAAAAT ATTTTGCAAG CAAAAAGTT TAAGTTGCAA CTATATACAA AATGGGGCCT GTTCCCTTCC
 CAGCAGTCTT AAAATAAACT CTTGAAACCA TGCTCCTTCC GCAGGTGGT TCGACCTCTT CCTTTCTCTG GGGTTCAATA
 CACAAGGTAT GTGGATTCTC CAGGTGGCCA GGCTAAAGCT AAAGCTATAC ATCTTCTCTG GCCTTATTC CTTATTTCCC
 CCTCCAAGAA TTAATAAATA AAATAAAATG AAAATGGCAC CAAGAAAACA TTCTTTTAAA ATACTGAATG TGTGTGTGCA
 TCGTGTGCA CAGTATGTCC CTGTTCTCTG GGT

SEQ ID NO:2149: (Length of Sequence = 394 Nucleotides)

GGGAGACTT TGGGCTTTNN TCATGACTGT TTGGGTCGAA GGTAGCTCAA GTGTGTGTGT GTGTGTGTGT GTGTGTGTGT
 GTGTGTGTGT GTATGTGTGT AAAGTGCTAA GAAGTGTGCA TTGACATCCA AACATTTCTT GTACAAAATT TCCCTAGCAA
 AGCAAACCTG CTTTGACTTA ATTTATTGT TAAATGTTGC ACTTTGTTTA TGTATGTTTT GTTTTGGTG GGGATAAGG
 AGAGAGAGGA CGACAAATTC TATTGAAGTA TTTATTTTGT GAAGATGGCA ATTTTGCATT TGTTTAATA TTTTTCATT
 NNITATTTT GTTATCAGTG CCAGCCCAAN ATACCTGCTC TACCATTAAT TTGCGGGCCT GATAAAAAGG GTCC

SEQ ID NO:2150: (Length of Sequence = 200 Nucleotides)

ACCTCCCTGG GCCTCGGAGA CGCTGACAGC TGGGACGACA GCAGCTCCGT CAGCAGCGGC ATCAGCGACA CCATAGACAA
 CCTCAGCACT GATGACATCA ACACCAGCTC CTCCATCAGC TCTTATGCCA ACACACCTGC CTCTCTCGA AAAAACCTGG
 ATGTGCAGAC TGATGCTGAG AAGCACTCAC AGGTGGAGAG

SEQ ID NO:2151: (Length of Sequence = 369 Nucleotides)

GTGCGCCCCA GTCTTTCTGA AACCTGTNAT CACACTTCGG GCACTGTCCC CTCTACAGTC AATCTGTGTT TTCAGAAGTG
GCCCCAGGTT CACTCGTCTT ACAGCAGTCC TAAAGAGCCG GCTGCCCTTT CCTAGGCCTT CCTTGCTCTT NAGGGCTAAA
TTCCAGCCCT CCTACCCAG TGCCACTTGG GTAAAAATAC TCTGCTCTC TCACGTTTGC TAATAAGCCC GGGCTCCGAC
TACCACCGTT CGGGGGAAGG GAGCCCCCTA CCGTCATGTC TGGGTCCGCT CCGGGAAC ATGTGCCGA CCTGACTTGT
GCGGCGGCAT CTTTCCGAA ATGCGGTTT TGTTCCTTC TAAGGGTGT

SEQ ID NO:2152: (Length of Sequence = 312 Nucleotides)

TTCAAAACA AATTGTGGGA GAAACACACC TTCCCAGCAA TAGAAAATCT CTATAAAGTG CATTTTGCCT GCAACCATCT
CTTCCCCATG CTGGCCCTTG GGTGAGATT TGAGGCACTG TTCGAGGGA GCCCTCAGGG CCACCTGAGC TGGGAGAAGG
GAGGCATGAA GCCACCATGG AGCTCCAGGC TACTGGACAT ACCCTCTCTA CCGTCCCTT CCTTNTGGC TCCAGGAGTG
CACTGCCCTGA CTCCACTGGC AGGTTGATCT GGAACGGGC TNGGCATGCT AGGGATGGTG GAGAAGTAGG CG

SEQ ID NO:2153: (Length of Sequence = 325 Nucleotides)

CCCAGACCCA GAATGTAAAT NAGGCCAAA TGGCCACTTC CCAGGCTGAC ATAGAGACCG ACCCAGGTAT CTNTGAACCT
GACGGTGCAA CTGCACAGAC ATCAGCAGAT GGTTCACAG CTCAGAATCT GGAGTCCCGG ACAATAATTC GGGGCAAGAG
GACCCGCAAG ATTAATAACT TGAATGTGA AGAGAACAGC AGTGGGGAT CAGAGGCGGG CCCCACTGGC TTGCAGGGAC
CTGGGGTCT GCACCAATTC CAGTGACCAC TTCAGAACCC ACCTNGGNC ACCCCCCAAT GTGCTCTGGC AGACGGCATT
GGCTT

SEQ ID NO:2154: (Length of Sequence = 326 Nucleotides)

ATCATTTAAT TAACATCTTT AAATGAAACA CAGTTTTCTT CATGTGTCTC ACTCAGGCTT CAGGGCAGAG GGAATGGATT
TTTAGACATA TCAAGACTC AAAAATTAA AGAAATATAT ATATGTATAT ATATACTTCT AACATTTTAT GGAAATTAAA
AATCAGAGGC TTTTGGTCTC TCCATTTACT CTAGGTCAAG CTCATTTACC CCAGAGGACA AAGAAGGGCT GCCTCTCTA
GACCTCCCT TCTCCTTTGT CCTNIGTCCC ACCCAGCAGG GAAACAAGCT CAGAAGGATC CTAACAGGAT AGAGTTTCCA
GTAAAT

SEQ ID NO:2155: (Length of Sequence = 317 Nucleotides)

TGGATGAGGA GACCCGTGAAC ACACCCGCT ACTGNCAGCT GGAGCCCAGG GCCTGTNACA TCCTGCTGGA CCAGCTGGGC
ACCTACGTTT TCACGGGCGA GTCCATATCC CGCTCAGCAG TCAAGGGCT CCAGCTGGCC GINTTGGCCC CCGCCCTCTG
CACCTCCCTG GAGTACAGCC TCCGGGTCTA CTGCCTGGAG GACACGCCCTG TAGCACTGAA GGAGGTGCTG GAGCTGGAGC
GGACTCTGGG CGGATACTTG GTGGAGGAGC CGAAACCGCT AATGTTCAAG GACAGTTACC ACAACCTTGC GGGCTCT

SEQ ID NO:2156: (Length of Sequence = 372 Nucleotides)

CTTCCAGCTG GCAGCCAGT GGGCCACCA TGTCAGCAC TTTCCAGTGG GACTCTTCAG TGGCAGCAAG GCCACCTGAG
GCCCTGNTC CCAGCCACTT TCCTCTCTGG CACTGCCACC AGCCTCACG AGTGGGCGA TCTGGCTCA CTGCAGCCTC
TGCCCTCCGG GTTCAAGCAA TTNTCTGCC TCAGCCTCCT GAGTAGCTGG GACTATAGCC GCGTGCCGCC ATGCCAGCT
AATTTTGTG TTTTGTAG AGACAGGATT TACTATGTT GGCCAGGCTG GTCTTGATT CCTGACCTCG TGATCCGTNC
TCCTCAGGCT TCCAAAATG CTGGGATTAT AGGCATGAGC CACCACAACC GG

SEQ ID NO:2157: (Length of Sequence = 351 Nucleotides)

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CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
 GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
 CAGCGTCCCC TCCAGTCTGC ACGGGGCAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
 CCTCTATCCC TCCCAGCACC TACTACATCG NCCTNCACAT CCCTGATTCC TGTGTGTATG GAAACINTTG CCAGAGATGG
 AGGTTCTCTC GGAGTATCTG GGAAGTGTGC C

SEQ ID NO:2158: (Length of Sequence = 280 Nucleotides)

CAGCTCCTGA GGACCGCTGC AGTGATGACA CAGGACTATT GCATCAGCAT CGTGCTCACA GGAATCAGA GCTCAGCCAG
 GAGAGGTCCA AGAATGACAG AACCATGAGC ACTCCTACCA AAACCTCAGT CTGCTCAGCC AAATCAACAA TTCAACCCAA
 CAGGNCAACT CCTAACACAT CCCATCCAGA CAGACATTAG AGGCGCACAG CAGATGAACC TCCTACTTAC ACTGTCCAAG
 GAAGCTGGAC TATCAATTCC CAGTAAAGT GGGGAAAGG

SEQ ID NO:2159: (Length of Sequence = 342 Nucleotides)

CTTGTCGGTT TCTCCTACCA GATTGTGCAT GCCTCCTGTG GGCAGAGCCT GINCTGACTT GCTCCTGGGT CTCCAGCATC
 ACCCAGTCTG GAGCTGAGGA CCTGGGTACC TACAGATTTC CTTCACACT GTCAGAATTG AGATGAAGGA AGCCCAGAGA
 AATCAAGTAC CCTCCACCAG GCAGAGCAAA GTCCCTGGGTG CCCAAATCC AGGGAAGGCA AGGGCTGGGG GTACAAGCAG
 AGGATCTGAA GAGGTATATG AGAGTNGCCA GCACAGACCT GGCATAAGCT TGGTGCTCAG TGAAGGTTAC CTGATGTTGC
 TGGGCACCAG GGGTGATGCA GT

SEQ ID NO:2160: (Length of Sequence = 376 Nucleotides)

ATCTTAAGAC ACATATGGAA AACATAGGG TAGAACTTAG TAAACTACAA GAATATAAAT TGGAGCTAGA TGAAAAGGCA
 GTGCAGGCAG TAGAAAAATT AGAAGAAATC CATTTACAGG TTAGTTTITT AAATCAGGTA AGTTTATCTG TAATGTGCTT
 TCATTTATTT CACGCAAAAT TATATTTTGG ATATGTATAT ATTAATGTTT CTCTGCCCTCT CTGTAGCAA TTGTCTTTGT
 AGAGTTCTAG AAAAAAATG GCATCTGTTT TTCTTTTAA ATATTTACAT TTCCATTATT ATTATAACAA AATCAATCTT
 TCAGAGTAAT GATTCTCACT GTGGAGTCAT TTGATGATTA AGATCCAGTT GGCATA

SEQ ID NO:2161: (Length of Sequence = 404 Nucleotides)

CCTTCCTTCG GTTTCAACTG GACTTCTATC AGGTCTACTT CCTGGCCCTG GCAGCTGATT GGCTTCAGGC CCCCTACCTC
 TATAAACTCT ACCAGCATTA CTACTTCCTG GAAGGTCAAA TTGCCATCCT CTATGTCTGT GGCCTTGCCCT CTACAGTCCT
 CTTTGCCCTA GTGGCCTCCT CCCTTGTTGA TTGGCTGGGT CGCAAGAATT CTGTGTCTCT CTCTCCCTG ACTTACTCAC
 TATGCTGCTT AACCAAACTC TCTCAAGACT ACTTTGTGCT GCTAGTGGGG CGAGCACTTG GTGGGCTGTC CACAGCCTGG
 CTCTCTCAG CCTTCGAGG CTGGTATATC CATGAGCACG TGAACGGGC ATGACTTTCC CTGCTGAGTG GATCCCAGCT
 AACC

SEQ ID NO:2162: (Length of Sequence = 339 Nucleotides)

CACTCCTTT TTGTAGCTTG GGATCTAATT TGTAACACCT TGCTACCTAT GAAAAGTGGG AATGTAAAAG GGAAAAAGCA
 ACTTGGCATT TACTAACTT AGGCTAACCA AAACCCTCTG TAGAGATCCT TACTAGACAT GGGTGCAACA GCAAGCATCC
 CAGAGGACCC ACCACTGGGG TATGTTTLAG GCCAATGGAG CAAATTCAAA TTGGCTAAA AGAAGAAGAA ACTCATTTAG
 TATGGCAATA ATATTTGCGT TCGACACAAA GTGGCAAACC AACACATTG GCCTAAACAT GGTCTATAT GTTATAATGA
 TACTTTACAA TTAGACTTC

SEQ ID NO:2163: (Length of Sequence = 285 Nucleotides)

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CCCCGCCACC TCCAGCAGGA GCAGCTCAGT TTGTGGCTCT GGGAGCTCCG CTTTTCGAAA CCCAAAAAGG CTGTGCATTT
 GGAAGCCAAA CGCTCAGCAT GCGGCTGCCG AGTCIGGTTT TGTGGACAAA GCAAACTGTG GAATGGCTTC TCGGTGTCIG
 TATAAAGGA CAAACGGTTG CATTCACCCT TTGTACTATA ACACCGCTTC TGCATCGCC ATATCGTTT TTTAACCTTT
 TTGTCTCCG GGAACCTCTC ATTGATTAT NATGTCTTCT GATGA

SEQ ID NO:2164: (Length of Sequence = 296 Nucleotides)

ATGTTTGTA ATCACTTCCT TTCTCTACAA TATTTCTAAT AAGAAAGCTT ATAACAGCAC TTTATTGACA CCCTCGGACC
 CGGGGCAGGG TCAGCAAGAC TCCAGCTGG CATCAGACTG TGTCTGGCCT GCTGTGCCA TCCCTGAGGG GTGCAGGACA
 GAGCCCCATA GGCAGAGAG GCTTCCCTGG GACCAGAGGA GGATGCTGTG CAGCCAGGCC CATCCCCAGC ACTCGAGGCC
 TAGGAGGAGA GGTGGGCTCT GGCAGCGGT GTNAGGTGGC AGTGAGAAGC CAGGCC

SEQ ID NO:2165: (Length of Sequence = 310 Nucleotides)

GTTTTTGTA TGTTTTCAA ATAATGTTTT TCTGTGTGTG TTTTTTINCT TTTTTTGGAC AGGNTCTCAT TCCCATGCCC
 CAGGGTGGAG TGCAGTGGTG CGATCTCAGC TCACTGCAGC CTGACTTCC CAGGTTGAGA TGATTCTNCC ATCTCAGCCT
 CCGAGTACC TGGGATTACA GGCACACACC ATCATGCCCG GCTAATTTTT TGTATTTTTA GCAGAGACGG GGTTTTGCCA
 TGTGACTCAG GCTGGTCTCG AACTCCTGGG CTCAGAGAT CCGCCTGCC TGGCCTCCA AAGTGTGGG

SEQ ID NO:2166: (Length of Sequence = 361 Nucleotides)

GATGGAACT GGAAAAAAA TAATTGTAA GCAACAATT TAGATTTTTT TATGGAGGAT AGAGACATTT GAATCAGATA
 CCAAGAAATG TATAGTAATC ACTCACATAG AAAGATGTCT AAAATGGATT TTAAATGGGA TCGGGGAAAG CAAGGTGCTG
 AACAACATGC TGTACATACT ACTTATAAAT CAAAGCAAAC CACTAGCAA CTGATGTGAG TACTAACACA GGTGAAGTG
 GGATTGTGGC GGAGGGGAGA GGTAGTINAGG GTAGACTTAT TTGTACCAAT TTNATTTTTG ATATTTCTTT TATATACAGA
 TACATAAGTC TGTATATACA TGTATGTCCA ATTATCTCCT T

SEQ ID NO:2167: (Length of Sequence = 325 Nucleotides)

TCCTGGGCTG TGCTCTGTTT GAAGGGGGCG CCCTGCTCCC CTCAGATCAG TCAGGAGGAA GATGACTAAG GGGAGGGATC
 CTCGGGTGA TGGCCTCTTC CTCTCAGGG ACCTCTGACT GCTCTGGGCC AAAGAATCTC TTGTTCTCTC TCCGAGCCCC
 AGGCAGCGGT GATTAGCCCC TGCCCAACCT GATTCTNATG ACTGCGGATG CTGTGACGGA CCAAGGGGC AAATAGGGTC
 CCAGGTCCA GGGAGGGGCG CCTGCTGAGC ACTTCCGCC CTCACCCCTG CCAGCCCTG CCATGAGCTC TGGGCTGGGT
 CTCG

SEQ ID NO:2168: (Length of Sequence = 348 Nucleotides)

GGAGAACCGT TCGCGGAGGA AAGGCGAACT AGTGTGGGA TGGCCACCAA CTGGGGGAGC CTCTTGCAAG ATAAACAGCA
 GCTAGAGGAG CTGGCAGGC AGGCCGTGGA CGGGGCCCTG GCTGAGGAG TATTGCTGAG GACCTCACAG GAGCCCACTT
 CCTCGAGGT GTGAGCTAT GCCCCATTCA CGCTCTTCCC CTCACTGGTC CCCAGTGGCC TGCTGGAGCA AGCCTATGCT
 GTGCAGATG ACTTCAACCT GCTAGTGGAT GCTGTGAGC AGAACNGTGG CCTTCTGGA GCAAANTCTT TNCAGCACC
 ATCAAACAGG ATGACTTTTA CCGCTGCT

SEQ ID NO:2169: (Length of Sequence = 392 Nucleotides)

ATTTTGTGA GGTCCAGTTT GGGTGGCAGA AACTAAGACA CTGAGCTGAT GAGAGAACTT GTTGCTTTTC GCCTTGCGCA
 TTTATTIATT TATTIATTTA TTTATTTTTG TATTTTATG AGAGACAGAG TTTCACCATG TTGGCCAGGC TGGTCTCAA
 CTCCTGACCT CAAATGATCC ACCCACCTCG GCTTCCCAA GTGCTGGGAT TACAAGTGTG AGCCACCATG CCGGCCACC

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TGTTGCATCT TTAACAGCTG TGTTTGGAAA AGGGTGAGGA ATTGATTCAT CAATATTCAA TACTAAGCTG CAAAATCAGG
AATGCAGCCA ATTGTTTAA TTGATCAAGG CTTATAAACT CTTAAGGGAC TCTAGTGAAC TGATACAAAC TA

SEQ ID NO:2170: (Length of Sequence = 273 Nucleotides)

GTTGTTGTTG ATGCTGTGTG TGTGCTTTC TGTTGTTTT TCTTGCAATG GTCAGGTCCC ACTCTGAACT CCGGGGGGCA
CCAACCTGAT GCCAGTAGGA TTGCCCTTGT ATAGGGTGTG TGACAACCCC TGTGAGGGT CTCACCCTGT TGGGTGGCAC
ATGGAATAGG ACCCATTTAA TGAAGCACTT TTTCCCTTGG TGGAGGTAGT GTGCTTTNCT GGGGAAAAAC CCACCTGTCT
GGGCTGCCTG GATTCTCTAG AACTACCAGG AGG

SEQ ID NO:2171: (Length of Sequence = 357 Nucleotides)

GTGATGTACC CCAGCACTAG GGAATGATGT GAGTAAGACC TAATCCCTGC TCTCAGGGAG CTTATAGCCT ATGGCAGCAG
CAACACTAGT AAAAATTTAC TACTTTGATA GGTGCACATC TTCTTTGGT CAGCAATTTT CTCAAAACCA CTGTAACATT
TTACTAAAT GCTAAGCTTT GATTGTTTT CACTACTTC TTGAGAGTTT CTGCATGTAT GATAAGGGCA AGACATTACA
CTGAGGTATT GATGCTGATG AGCAGCAAGG CTCCTGGCT GGTGAAGGGA TACTGATTAG CACACCAATG TGCTGCTCTT
GAACACACAC CTCACAAAA TTACAAATTA TCTTCCA

SEQ ID NO:2172: (Length of Sequence = 381 Nucleotides)

GAAGAAGGCC CATGGAGCTA AGGCCTCAGA ACACCAAGT CTGGACTGTC TGAGGGCACA TGCTAATAAC AGGAGGCTGG
CAAAGTGGCC AGCTCCCATG CCTTTGCATG CATTTNCTT TACCTCCTGC TGCTGGGAA CATCCTTCCA GGAGCAATCG
AGTCAACAGC ACCACAGACA CTGCTATTCC GTTGAGAAAA GTTTTATATG GAAACACATA CTGATCATGA ACACAATAAA
CAGGGAGGGA AGCTCGGGCT CAGCCAGGAA ACCTGCCACA AGGAAGATGT TTGGAATAT CCAGGAGTAG TGTCAAACAC
TAACACCATA TTTACAAGTC TAATTTGGAA CCTGGGCCCT TTTAAGTGC AGGAGGAAGT T

SEQ ID NO:2173: (Length of Sequence = 351 Nucleotides)

GAAGTTCCGG GAGCGCCTGA AGGAGCTCGT GGTCCCAAG CAGTCAATG ATGTTGTGGA CGAGGAGCTG AGCAAGCTGG
GCCTGCTGGA CAACCACTCC TCGGAGTTCA ATGTCACCCG CAACTACCTA GACTGGCTCA CGTCCATCCC TTGGGGCAAG
TACAGCAACG AGAACCTGGA CCTNGCGCGG GCACAGGCAG TGCTGGAGGA AGACCACTAC GGCATNGAGG ACGTCAAGAA
ACGCATCTTG GAGTTCATTG CCGTTAGCCA GCTCCGCGGC TCCACCCAGG GCAAGATCCT CTGCTTCTAT GGGCCCCCTT
GGCGTGGGTA AGACCAGCAT TGCTCTGGTC C

SEQ ID NO:2174: (Length of Sequence = 308 Nucleotides)

TCATTAAATA GCTTCTATGC CACACTCTGA TTAAGCCGAC TGAGGTCCCT GGGATCTGGG TCACTGGACC GAGCTGCTCG
CTCGGTGGCT CCACTGCCAG GTCCGGGCGC GCTCCCCACA GCGTCAGTT CTGGCCGAGA CAGGGCCTGA CATCCGCCG
CTGCAGTCCC GGGGTGGCGG TCACCGTTCC ACGGCCAGNG ACTCTNCCCTG CTCGTCCGGG AAGGCGATGT CGAAGATCTC
CCGTAGTINT TCCACGAAGG TAACCTCCAG GGCCCTCGGT GATGAAGGCT TCCAGGTCGT AGAAGTCC

SEQ ID NO:2175: (Length of Sequence = 403 Nucleotides)

CTGCCCAAG GGCCTGAGCT GGTGGAGGCA GAGCAGGAGT TGGATCCAGG CCTGINTGAG GCATCCTGCC ACCTCCATCC
AGACCTGGAG CAATCCCTGA GAAGGGTGGC TACCACCAGA GATGTGGCAG CTCTGGTCTC AGGAAGCATA GCCGGAGGAT
GTCCAGGCA ACCAAACAGC CATTATCAG TAAGGAGCCA GAGTNAGGCG TGCTAGTTCA GCCCCGGAA GGTGGTCCAG
GGCAGCCAG TNCAGAACTC AGCAGGAGCT CAGTCCAAC TGAGCCTGAT TCACTCCAG TGTCCACAAG GGACATCCTG

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ACCTGGAGGT CCTCGGCTAC TCACCCTGGG GCTTNCCTGC ACAGCCCAGG AGCTAGCCCA GGGCTGCCCTC TAAATGGTTC
CCG

SEQ ID NO:2176: (Length of Sequence = 399 Nucleotides)

AGGCAACTAT TGAGGGAAGA GGCAGAAAAA GGAAAAAGGA ATGTACGTAA GGCAATTTIN CTAAAGTA CAATAAGCTT
AATAGTGTIT TAGGAAGACA AGATAAAAT TACTCAAGSC TAGCTTGGTT CTCACTGAAT AAAAACAAAG GACTAAATAC
TGAGCTCCTT CTGTGTGGAT CTAATAATCA ATGCCTTGGT CGCTATATG GTAATCTCIG GGGTAGTCAT CCTGGTACTC
GCCATGATAC TCATCAGGGT ATTCTGCCTG ATAATCACTA TCCTGATTT CCGAACCAIT TGTTCCTGTT CCTTGGCTTC
CGTGTGAAT GACAGTTCT GTAGGAGCAG CACAGTATTT GGGGATCATA TACTTGCCGN CCAAGGCCAT ACAAACTCA

SEQ ID NO:2177: (Length of Sequence = 302 Nucleotides)

GGTTTTATA AAAATCAGAA TTTTCAAAT GCATTGGTCA TTTTCAGATG CATTTGGTAC ATTTCAITAT TCCATATCAA
AAAAGTGCAT TTGTAAATGT CACACAAATC TCATTGGAAA GGCTTCAAG TATGTGAAG TGTCCAGGT CACAAAGATG
AATGCTAGTT TTTCAAAAT CTACTTTTA CTGAATGCT CAAATCTTAT AATTTGTAAC CCGTTCAGTT TTTCTTTAGT
TGATAGGCTT ACTGCTTTTA TGTGTGAGA ATACTTGTCT GTGAAACATC CAAATCTGGA AG

SEQ ID NO:2178: (Length of Sequence = 343 Nucleotides)

GGTTTCACTC TCCTTGCCCA GGCTGGAGGA GCAATGTAT GATCTTGGCT CACTGCAACC TTCTCCCTTC CAGGCTCAAT
CAATTCCTCT GCCTCAGCCT CCGAGCAGC TGGGACTACA GGTCGTGCC ACCATGCGCA NTAGGTTTTT TTTTGTAGA
GACAGGGTTT TGCCATGTTG CCCAGGTTGG TCTCCAATC CTGAGCTCAA GINATCTGCC TGANGTCTG GGATTATAGG
TGINAGCCAC CACATCCAGC CTCCTTTTAA TGTTTTGTG ATTAATTTATA GTGAAAGATT TAAATTCCTT TCTATTCCT
TGIGGTATAT ATTCTATAGG CTA

SEQ ID NO:2179: (Length of Sequence = 377 Nucleotides)

AGATCATCAG GAATTAGATT CTCATAAGGA ACACACAACC TAGACCCCTC AGAGGTGCAG TTCACAGTAG GGTTCATGCT
CCTATGAGAA CCTAATGTTG CAGCTGATCT GACAGGAGGC AGAGCTCAGC TGGTAATGCT CACTCACCTG CTGCTCACCT
CTTCTGTGT AGCTCGGCTC CTAATAGACC TGTATGTGTC CATGGTCTGC GAGTTGGGA CCCCTGCAGG AAGTCTGTGA
AATGCATGTC AGGAACTTA CTGTTTACAG CCACATAGTT TGTAGTAGTA AGGAACTAG GACAATTCAA ATATTATCA
NCGGGAAC TGGATAAAT TGTGGGTCAA TTTATATGT TTCATACAGG AAAAAAG

SEQ ID NO:2180: (Length of Sequence = 195 Nucleotides)

GATATTTGCT TTTCTCAGAA CCATAATCGA TACAAGATGC AGTGACCAAT TCATTCCCTA AAACACCTGG GCTCCTTAAG
CGCTAGAAG ACACAAGTTA CATCCAGCCC ATCAGGGAGC CAGAGGNGA GGGGTCCCA GCCAAGCTCT GGNACGGCT
GCCATGGGGC AGNGCCTGAC CGTNCAGCCA GAGGT

SEQ ID NO:2181: (Length of Sequence = 244 Nucleotides)

TTGGGTGGGA ACGGGCCCG AGCGGGAGGA ACGTGACTCC CCAGAGGGAA GATGGGCATC ATACTGGGCC CAGAGCTGGG
AAGGAGTGC TGCCAGCACA GGGTGGGCCT GGACTCCCT CGCCCCCTACC CCCAGTGGTT GTGGCTGTAG CCCTAAGCCT
GGAGAGCAGG ACGGGCCCG GGTGTNNGN AGGCTGCCAG GTGCCTCCA GAGCTCCAA GGGCCCCAC CTGCAAGTNC
CAGC

SEQ ID NO:2182: (Length of Sequence = 287 Nucleotides)

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CTCCTTGAGT CTGTTGACAC GTCACATGGT CAAAGTCTCC TCATTTCAGC CAGTCTCAAC ACAAACACC CAACAGGGAT
GCACTCAACT TGTGTGGTCC ATGTGGAACT AGGTGGCAGG GCGAGAGGA AAGTAGTAGA AGGGGGCTAT GGTGTGTCTG
CATTAGTCC CCTCACATAA AGCCACATGG ATCTAGGGGG GTATCCAAGA GCTCTGGTGG GGTCCGTGTT GCACCTAAGA
CATTATAGGT CAGAGCAAGT TGCTCAGAGG GTTCCAGGCA GGGGGCT

SEQ ID NO:2183: (Length of Sequence = 389 Nucleotides)

GATCCAGAGA GGGCTCCAGG TGGAGTCCCT TTTTCTGCAT AAGGGGCTGT GACCGAAGCA CAGAGGGGAA AAAAAAAGT
GGTGGGAGCC TCCTCTGGTT TCACCTGAAG AGGGAGGTGG AAGGGCCTGA AAATTAGATT TTTTATATA ATAATAGATA
TTATAGGTAT ATTTCATAT TTTTACATAA TGATGCCAAC CACAAACAAT GGACCATAAA GCACTGACCT CAGAATGATC
AATTGCAAAA TGTTTAAACC CTGGGAAGCT TTTGCTTAGG AGGGCGGATA TTCTGTGTG ATGTTATTCT ATAGCCATAA
ACTTCCCTGA ATTTCCTGCT AATGTATCCA AGTCCAGGA AGTCACTTAA AACTCTTCAA ATGCAGCTT

SEQ ID NO:2184: (Length of Sequence = 383 Nucleotides)

GCAAGAGAAG CGGTTTGGGT CTCTGAAGGA AAGGCCAAAA CCCAGAACAA AGAAGAATCC TATGACTTCT CCAATCCTA
TGAATATAAG TCAACCCCT CTGCCGTGC TGGTAATGAA ACTCTGGGG CATCTACCA AGGTTATCCT CCTCCTGTG
CAGCAAAACC TACCTTTGGG CGGTCTATAC TGAAGCCCTC CACTCCCATC CCTCCTCAAG AGGGTGAGGA GGTGGGAGAG
AGCAGTGAGG AGCAAGATAA TGCTCCCAA TCAATCTGG GGCAAGTCA AAATATTTGA GGAAGATGN TCCACAAGGC
CAGGTTACAG AGGAATGCAA GGAGCTTCCA GGAAGCACA GAATTCCAAG TTTTCGGAAA TTT

SEQ ID NO:2185: (Length of Sequence = 359 Nucleotides)

CTTTAATTCA CATCACAGCA GTCAAGGAAG TGGGGAAAGG GGAAAAAAT CAAGTGGCAG ATATTTACAT CTAAAATTCA
CATTACTTGT TGGATTTTGA ACATGCTACC ACAATATATA CAGTAAAATA CCTCTTGGGA CAATGGTACA AATTTTGT
CCTTTAATT TGCTTTTCTG GTACAGGTAA GATCATTTTT AAATCACTTT TTINCTTTAA ACATGAATAC ACAAAGAAA
TGGTTAGAAG TTTCTTGT TTAATAAGC ACAGAATGCG GGAGGTAA AACACATTTA TAGTGCTGAA TACCAATTGG
NCATCACACT CTATACATTT TTTGCTCAA TTCTGTAC

SEQ ID NO:2186: (Length of Sequence = 337 Nucleotides)

ATAGTTATAC TCAGTGAAAT TAACAAGACC CAAAGTGGT ATTGTCTAGG AATAAAAGGG ATAATTTTG TGTTCACAA
AAGTAACTTG TCTAGCACCA CACATCAGAA AAACACAAAA ATAGCACACT CTAGTTCTAA ACAGCTATGT CTAAAATAGA
TTATATAGTA AAACCGGTAT TATACAGCAT ATTGTGGATT TGATAAACAG ATAATATTT GCNCTGAGTA GGCTGTTTAT
AATATAACAT TTINCTTATCT ATACAGAATG AAAGCCAAAA AGTTAACTGT ATAGAGATGT GCAGAACAAC ATTAAATATT
ATGGCTCAA AGCAGGG

SEQ ID NO:2187: (Length of Sequence = 329 Nucleotides)

GCATTINTCA GCACAGATAG AGCCCTGTCC CTCCACCTAG TGCCCACTCC ATGACTGTTA ATAATAACAA TAATAATAAA
ACTACTGGCC AAGCAGGTG GCTCATGCCT GTAATCCCAT CACTTTGGGA GGTGAGGTG GGCAGATCAC CTGGCCCAAC
GCCACCGCT CTAGCTCGG GCTCCCTGAG GTCCCACTG CCCTNNCCGG TCCCACGGCT CCCACGNTGC CACCCTGTCC
TGACTCGCCA CCTGGTCTTG TGGGCAGACT GCTGATCGAG TTCACCTCAC CCATGCCCTT GGAGGCGGGT GCAGAGGGAG
AACCAGGC

SEQ ID NO:2188: (Length of Sequence = 335 Nucleotides)

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GGCCCCAGCT CCTCTTCTG CCTCTTNAT GGCTTGGGCT GGAGTGGGCT CTCTGGACCT GACCGGGGT CAGACTGTGG
 GTCCCTGGT CTCTGCCCC CTCTNACCG GCTTCTCTCC TCACGCTTA GGGTCTGTCC CGGTACTCA GTACGCCAG
 TGGGATCTTA CCCACTTCCC TGCAAGGTGC AACTGCCCCA GGCTCAGGCT GCCCAGCGC TCTTCTTGA CAGTAAGAGC
 AGGGCTGGGC GCCTCTTTC TGGCCGGAA GCGCAGGGG CCCCTCTCC AGAGCTTNGG CGCAAGGAAC ACAAGGCTGC
 CGCTGCTCTT CCAGG

SEQ ID NO:2189: (Length of Sequence = 366 Nucleotides)

AACTGGTGGA TCAGATCGAN TTCTACTTTT CTNATGAAA CCTGGAGAAG GACGCCTTT TGCTAAAACA CTGAGGAGG
 AACAGCTGG GATATGTGAG CNTTAAGCTA CTCACATCCT TCAAAAAGGT GAAACATCTT ACACGGGACT GGAGAACCAC
 AGCAGATGCT TTGAAGTATT CAGTGGTCTT TGAGTTGAAT GAGGACCACC GGAAGGTGAG GGAGGACCAC CCCCGTCCCA
 CTGTTCCCCA ACGAGAACCT CCCAGCAAG ATGCTCTGG TCTATGATCT CTACTGTCTT CCTAAGCTGT GGGCTCTGGC
 CACCCCCAG AAGGAATGGA AGGGTGCAAG AGAAGGTGAT GGAACA

SEQ ID NO:2190: (Length of Sequence = 333 Nucleotides)

CTGCGATCCA GCTTAGGCAA CAGAGTTGAG ACCCTATCTC AAAACAAACA AAACAGCCAG GCACGGTGGC TCATGCCTGT
 AATCCCAGCA CTTTGGGAGG TCGAGGTGGG GGGATCACCT GAGGTCCGGA GTTCGAGACC AGACTGACCA ACATGGAGAA
 AGCCCATCTC TACTAAAAAT ACAATATTAG GGGGCGTGGT GGTGCATGCC TGTAAATCCCA GCTATTTTGG AGGCTGAGGC
 AGGAGAATCG CTGAACCTG GGAGGCGGAG GTTCAGTGA GCCATGATTG AGCCATTGCA CTACAGCCTG GGCAAGAGCA
 AACTCCGTC TTC

SEQ ID NO:2191: (Length of Sequence = 284 Nucleotides)

AAGTTTATAA AAGTTTGATT ACTGAAAAG TTGATCTTAA TTCAGAAATT TCAGGCCAAA TGAACAGCC CTTCAAGCA
 AACATGCCTT CAATCTCTCG AGGCAGGACA ATGATTCTTA TTCCAGNGT TCGAAATAGC TCTCAAGTA CAAGTCTGT
 TTCTAAAAAA GGCCACCCC TTAAGACTCC AGCCTCCAAA AGCCCTAGTG AAGGTCAAAC AGCCACCANT TCTCTAGAG
 GAGCCAAGCC ATCTGTGAAA TCAGAAATAA GCCCTGTTC CAGG

SEQ ID NO:2192: (Length of Sequence = 260 Nucleotides)

ATGACGACGG CTACCTCGAG GTCATTTGCT TCACCATGAC GINGTTGGCC GCGCTGCAGG TGGGCGGACA CGGCGAGCGG
 CTGACGAGT GTGCGAGGT GGTGCTCACC ACATCCAAGG CCATCCCGGT GCAGGTGGAT GCGAGCCCT GCAAGCTTTC
 AGCCTCAGC ATCCGCATCG CCTGCGCAA CCAGGNCACC ATGGTGCAGA AGGCCAAGNG GCGGAGCGCC NTCCCCCTTG
 CACAGCGACC AGCAGCCGGT

SEQ ID NO:2193: (Length of Sequence = 247 Nucleotides)

GGTCTCAGCA CTGCTGGGT GACCCGCGG AGCAGGCAA GGAGGGCTCC CAAGTCCGTT CTGCAGCACT GGGGAGGGA
 ACAGACCCAG GNTCTGGGA ATCTCTTCT GCTAGCTTT GCTGCTGC CAGAGCAGG CCTGCGGTTT GGGTNCGTIN
 ACCNTCCGGG GGCGGGGGA GGGCAAGNA GCGGATCTC TGAAGTCCG CCCAACTCG CTNCTGATCC CCCAAGGTCA
 GAGAGGG

SEQ ID NO:2194: (Length of Sequence = 399 Nucleotides)

CCTCCATCTC CCGGTTCAA GCGATTCTG TACCTCAGCC TCACAAGTAG CTGGGATTAT AGGTGTCCG CACCACCT
 AGCTAATTTT TGCAATGTTA GCAGAGATGA GGTTCGCCA GGTGGCCAG GCTGGTCTTG AACTCTGAC CTCAGTGAT
 CCACCCACCT TTGTGGCCT CCCAAGTGC TGAATTACA GGCAACATGT AGCCTTTGAG TCTAGCTTCT TCCACTAGCC

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TAATTCATTG GAGATTCCAC TCGATTCTAC TTGAGATTCA TCCACATTGT TGAATGCACA TTCTTTTTTA TTGTCTCTGT
AGCATTCTGT TGTGCAGCTG TGCCCCAGTT TGTTCANCTA TTCACTCTCA GTTGTTCICA GTTTTAAATGA CAACTTCAG

SEQ ID NO:2195: (Length of Sequence = 172 Nucleotides)

TCAAAGTCAG CTTCCTGACC TGCAGGGCTT CAATTGTGTG CTGACAGTTT TAACTCAGAA AATCCCTGAC TTGATTGGCT
ACATAAATNA TATGINATAT AGCCATTAAG ATCATGGTTT TGGAAAGTAT TTTAATGATA CAGGAATGTG CTCTGAAATA
ATAAGTGGGA CT

SEQ ID NO:2196: (Length of Sequence = 398 Nucleotides)

GCAAAAAAAA AAATTATTAT CTCCACTTTA CCAGTGTCTA CACTTCACCA ATGTAGGGCT CTCAGTGAAT AGCCCAGGGT
CATGCACAGC CTGTTTCAGC AGCTACCTTG GACTTGAACC CAGCTCGGTC TGTCTGACTC AATGCCTATA GTCTTAACCT
TTCCAGCAGC TGCTTCTTTG TCAAACAGGT CCTCCCGCAG GTTTTCACAG CCCAGCCCCT TACTCAACAA GTATTTATTG
ACAGGCCTCA GGAACACTAG GCAAGTAGGA TAGCAATGAA CAAGATGCTG ACCTTGACCT TGACCCCTGA TCCATAGTAT
GAGCATTTTA ACTGGGGGAG GGTTCGCAA GTTCTCTTAA ACAGTCTACT ACATGCTCTG TAAGCATTTT CTTATGGG

SEQ ID NO:2197: (Length of Sequence = 313 Nucleotides)

GTCCCTTGTC CATTGAGTGC ATCCCGCTG GTGACTAAGC TCGCAGCAAG CGGCTACCCC CCGATCTGCA AAAGGGCCTC
TCCCTTTGTG TTCTATACAT TGTGAATCTT CCCGCTGAA GAACGCCAG CCTGCCAGA CAAAGCCCCG CCTTNCCTCA
AGCAGAGGGG CTGTCTGTGT CTCCAGAAAG GGGACATCGG GGGGGAGGGG GGCTCAGAAA GGAGAAGGGG TGTGATCTCC
GGTCCCTTCC CCCATCATCC TTCCTTAGAC TGATGCTTTG ACTGAATCAT CACTAGCTAT GGGCATTAAG AGG

SEQ ID NO:2198: (Length of Sequence = 360 Nucleotides)

GGTCTCACTA TGTGCCCAG GCTGGTCTCA AACTCCGTG CTCAAGCGAT CCTCCTGCCT CGGCTACCA AGGTGCTGAG
GTTACAGGCG TGAGCACTGC ACCTGGCTAG GAACTNAGT TTTTTCAGTG GTAGAGGCTC CTAGCCAGTG GCCAAGGGAA
AGAGAGAGTT CTGGGTTTCA GGGCTGGCAG GAAGTCAGCA AGACACCAGG GACTCGGCTC CACTGGCTGG ATCTCAGGGA
AGAGCAACTG CCACAGTGGG GACCTGGAAC ACAAAGGGAA ACTGAGGCAG CAGCTGCACC ACAGTTTACA AGTAGAAAGA
CCATGCTTGA GGACAACAGA AGTTTCACTA AGGATGCACG

SEQ ID NO:2199: (Length of Sequence = 374 Nucleotides)

TTTTGGGTAG TACCCTTGCC CTCTTCATGG CCACTTCAAA GTGAAGCCAG CAAAGTGATA ATACTTTATC ATTTAGTATT
ATCATAAAGT ATTAATACTT TGTCAATAAG TCCTCCTTGA GCCCAGGGAC CATGGAAGTC AGCTAGAAGA GCCCTGAGCA
AGGAGCAAGG ACTTGGGCTT CTCCACGCTT TGCTCCTGGC TTGTTTGACC TTGACTCATT CCCCATATGT CTTTGAGGAG
GCTCAGAAA TACTAAAGCT GGGAGGAAAC TTGGAGATCT ATAGGTCAAA CCTCCCCATT GGGCTGATGA GAAAATACAC
GCAGGCCTAG CATGGTGCCT GCCACCATGG TGGGATCCAG TATGGTTTTA TAAA

SEQ ID NO:2200: (Length of Sequence = 416 Nucleotides)

CTACTAAAAA TACAAAAATT AGCCAGGCGT GGTGGTGGC ACCTGAAATC CTTACTCAGG AGGCTGAGGC AGAGAATCGC.
TTGAACCTGG GAGGCAGAGG TTGAGTGAG CCGAGATCGT GCCACTGCAC TTCAGCCTGG GTGACAGAGC GAGACTCCAT
CTCAAAACAA AACAAGCAAA CAAACAACAA CAACAAAAA TACCTCTTGA CTTCTAAAGA CGCAAAAGTG GCCAAAGTG
CAATACAGTA TTGTGTTTAT TTACATCTAT TTTAAATGCA TGIGTATCTG TAAATNCAA GTGATTCGTG ACTCATTGTC

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TCCTCAGTCT ATAGCATTAT TAACTTTCTA GGAGCAGCAG TGGAGTAGAG TGGTACTGAA TTGGTCACAG ACTTCATCCG
ATTATCAGGA TCCTGG

SEQ ID NO:2201: (Length of Sequence = 315 Nucleotides)

GAAACCAATA TAAATTTCAA AATAAACCAG CATAACAGACC AATTGCAATT TATAGAAAAA ATAAAAATGT AGAAACATCA
CCTCCTCTCC CCGACCCAG TACTGAAATT ATACTTCTC AGACATACTG CCCCATCACT GGGGAGGGTG CCGACAGATT
GGGTACATTT ATAGANTATT AAATAATTAA GTAACAGAGG CACCGTTTTT GCATGTATGG TCCCAAGAC TTTTCAACTT
NTTTTCAAC ATTACAGTTG TTAAGAATGG AAATTGAAGG AATTGTACAT ATTTTCACTG GCAGTTTCTT ACAGA

SEQ ID NO:2202: (Length of Sequence = 328 Nucleotides)

GCTCTGTAC TCAGCCTGGA GTGCAGTGGT GIGATCTGG CTCACAGCAA CCTCTGTGTC GCAGGTTCAA GCAATTCTCA
TGCCCTCAGGC TCCTGAGTAG CTGGGATTAC AAGCATGCC CACCATGCC AGCTAATTTT TGTATTTTGA GTAGATACAG
GGTTTCGCTT TCCTGACCTC AAGCTATCCA CTGCTCTGG TCTCTCTCAG TTCTGGGATT ACAGGTATGA GCCACCATGC
CTGGCCGGAA TATATATATT TTTTACCACT CTATTCCAG TGCCTAGACT AAAACCCAGC ACATGGTACA CGTCATACAT
AAGGAAGG

SEQ ID NO:2203: (Length of Sequence = 268 Nucleotides)

ATTTGTGCT CGTCGCTCAT GCCACCCTG GGACNACGG GGTT CCGG AGTGGTTTTT CTGGCTTGTT TCAGCCTTTT
CAGGCTCTCT TCCATCTTCT TCACAGAGTT TAATACATCT GACACGGTTT CATAGTACTT ATGAGTGCTT TCACTGAGAG
TGCTTCTAG CCACCTCTGA ATTATGCTT GTTTGAGCTT ATCCTTGCTT CCGCTCTGAA GCTGGAATAA GGGCTTCANA
GCACGTCCA CATAGGAGGA AGCTTTGG

SEQ ID NO:2204: (Length of Sequence = 353 Nucleotides)

GTAAATCINA GGTCAGGAT GTCCCATGAT GGATGATGAC TGANATGGAC GGAAGTTTGG TTTGAAGCGG TGGCAITGGT
GCAGGCTGGC AGAGGGGGCA GTTCTGGATA GAGTGTCTG ATGAATGGGG ATACTCATGG GAGGTGATGC AGATGAGGAT
TCNTGCTTC TNAAGGAGGA GCCAGGCATT TAGAATGGCA CTGGAGAGCA AGGACTGACT GANCCCCCTC ACTGTGTCCC
CAAGAGGCCA GGAAGGGAAG AITGGAGGAG ACAAAGTTGA AGTGAGTTTT CCAGGGAACG AGTCAGTTAA GAGATGGTAG
GATCTTAAGG GAAGATGGCT AAGATCTTAA GGG

SEQ ID NO:2205: (Length of Sequence = 265 Nucleotides)

GTTCACCAT GTGGCCAGG CTGGTCTCAA ATTTCTNACC TCAGGTGATC CACCCCTCCT CAGCCTCCCA AAGTGTGGG
ACTACAGGCG TGAGTCACTG CCGCCAGCCG TGGTTTTTTT TTTTITAGAA CAGTGTITTG CCATGCTGCC CAGGCTGGTC
TCAAATCCAT AGGTTCAAGT GATCTCCCCA CCTCAGCCTC CCAAAGTGTC GGGACCACAG GCATGAGCCA CCATGCTTGG
CCAGAAAGAA GTGTTAACA AAATG

SEQ ID NO:2206: (Length of Sequence = 340 Nucleotides)

GCAAAGCTTA TTTTTCAGT TGTTGGCTCT AGTTTGGTTG GGAAACTATT TCCTTAGACC TGGGTACCC CTCGGGCTCC
CTTAATCTCC CGCCATAATG TCTCCAGAA CAGGGCATGG TGTCTGCC TGGTGGGACT CAGCCCGGTT GCTTTGCACA
GACTCTGGC CAGGGCAGGA TGTCGGTGT TCGCGGGTGT TCGCGGGTG TTATCTGTGG CGCTCAGTAT GGTGCATAGT
GTAGACAGCT GCCCTAGGTG GTGTTTAATT GATCTGGGTA AGACTCAGNC AAGGCAGGGC ACAGTGGCTC ACGTCTATAA
TCCAGCACT TTGGGAGGCT

SEQ ID NO:2207: (Length of Sequence = 348 Nucleotides)

GTGTTTGT TT CTCTTTCCAC CATAATTGTA AGCTTCCTAA GGCTCCCCA GCCCTGTGGA ATTGTGGATC AATTAAACCT
CTGTCCITTA TAAATAACCC AGTCTGAGGC AGTCTTTTAT AGCAGCGTGA GAATGGACTA ATACACCTCC CTTCTTGAGT
CTGGAAGAAT ATGTGAAGGG AGATTGCTAA GGACTTATTT ACAGAATGGT TCTTAAAGTG CTTGGGCAAG AACTATGTAT
TINTGGAGGC TGGTAGTGTT TCAGTGAATC TGAAAACCTT TGTGACATGT GAGAAAGGTA TGCTGTCTCT GAAAGCTAAG
TGTATTATGA AGGATCTATA AAGGGCCA

SEQ ID NO:2208: (Length of Sequence = 154 Nucleotides)

GAATCCTGCT GTGCACATTG CTTGAGATGG CTAATTATAT CTTTGGACTG TTTGTACAAC CATTGACAAA TATACTTACT
TTCATTTCTG CTAATGCAAC TGAAAAGAGC ATTCTGTAAA TTGAAGAAAA ACAATAAAC AGNAATTAC AACC

SEQ ID NO:2209: (Length of Sequence = 352 Nucleotides)

GAGGTTGAGA ATCCTCCATC CAGCATCTTC CCTGGTCACA TGGTCCCAAC CTTTGTCTCC ACCCCCTTCT CTGTTCCCCC
CGCAGTCCAT GCTCCAGCCA TCCTGACTCT GTCCCTGGAT TTCTGGCTTA CTGACACCTG AGCCTGTGCA CAGGNCCTCC
CTTCTGTATA GAGCACGCTT CCCATCTGTG GGACTTGTCT CCCATCTTGT GGACTCGGAG GGTTCGGAGC AGCCGTTGAG
GTGANGCTCC TATGACACCT CCNCGTGAA GCTTNCCTCA CTTTTCATT ACCAGTGAGG CCTGCCACAG CTTGATTGTG
ACTCTGATCC TGGCAGCAT GGAAGCCATC TT

SEQ ID NO:2210: (Length of Sequence = 338 Nucleotides)

GTCTTTCCAT CAAGAGTCAA TGTATATGCA AATATAGACT TAAGAACATA AGCATCCTGG TTTAATGTTG TTGTGAGCCC
TGTGGAAATA AAATTAACT CAGTGAATGT TTACAAATCA ATACATAGTA ATCCTATATA TGAAAGCTAA GATGTATAAG
ATGTTTATAA ATTTNCTATT AGAAAATACT GCTTCTTAA AGGTGATTTT AAAAAGCTAG CTGATATCTG ATGGCTCAAG
CATCCAGAAA ATGTATGCAA TGATAAGNCA TTGACTAGGA TGAACAGAAA AGGGATACAG GAAAAGTCCG AACACATGAA
ATTCTAAATT AACCAAGA

SEQ ID NO:2211: (Length of Sequence = 353 Nucleotides)

GTTCTGGAG TACCCTCTTC CCCCAACCCC AGACCTGCTT TCAGAGCAAA ACTCAAGTCC CTCTTCTTCC GTGAAGCTTC
TCCCTCAGCT GAGCAGTAT CACTTACTCA CTCTTAACCC CAATCCGCTG ACTGGGTGGG GACAGCAGT CCAGCCTTCC
CACCTCTCT GCAGGCTTCT AGACGGAGTT TCAAAAATG ATGAGCCTCG ATCCAGGGCT TGAAAGAAGC CAGGGTGTA
TCTTGTTTAT GCATGCTTCC CCAGAGNCTC GCCCAGTGCC TGGNACATAG TAGGCACTCA ATAAATGCTG AATGGGTGAA
TAGTTGAATG ATAGGTGCTC AATAAATGAA TGA

SEQ ID NO:2212: (Length of Sequence = 293 Nucleotides)

GAGAAAGGAG GCAATCTCAG TCTCGGCTC CAAAAAGGGA TACTACTAGG GAAAGCAGAA GATCTGAATC ACTGTCCCCA
AGAAGAGAAA CTTCTAGAGA GAACAAAAGA TCTCAGCCAA GAGTGAAAGA TTCTTCCCCA GGAGAAAAAT CCAGGTCCCA
GAGCAGAGAA CGAGAAAGTG ATAGAGATGG GCAGAGGAGA GAGAGAGAAA GGAGANCCAG AAAGTGGTCT AGGTCCAGAT
CTCATTTCTAG GTCCCCCTCA AGATGTAGAC CAAAAAGTAA GAGTTCATCA TTT

SEQ ID NO:2213: (Length of Sequence = 423 Nucleotides)

NATTAACACC ACAGTGATAA ACAACTTTAA GCTTATGTTT CTTTATAGAT CACTGGCTCA CACATAATTC AAAACCCACA
CAGAAGCTAA GAGTCTTTAC ATTAAATATA TTCTTCCTAA AAATCCTTAC TGTATGCATC TGTCTCAAG CAGTAAATTT
TGATTATGCA CCATTTTATA ATTAATATGT CACATTTTACA TAGCAAAATA ATGAAGGCAC AGCTAATACA AGCAAACCTA

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AACCCCTTCT ACTTCGAGC TGGGGGTAGG GGCACACACT TGGGATTGGT TCTTCAAGTA TATATTTTIN CCAAACATTA
GCTTCAGTGA AGAGTTCTGG ATGATTTTCA CAGCTACACC CCTAAAAGCT ACATGGACAG AAAGACGTCA CAAGGCGCAA
GGTACATAAC GGTGGGTACA TAT

SEQ ID NO:2214: (Length of Sequence = 259 Nucleotides)

GTACATGGAGA TCCACAGCAA GTACTNGCGC TGCCTGCAGG ANCAACCTCC ACAGCGGGGC GTTCTCTGAT CGAGGCTCAG
ACTTTCGAGA ACGAAGAAGC CGAGACGGTC ACCGCCATGG CCTCGCTNTC CGTGGGCGTN AAGCCCGCCG AAAAGAGACC
AGATGAGGAG CCCATGGAAG AGGAGCCGCC CCTNTAGCAC TNCCTCGAAG NIGCTGTCT CTGTCTCTGTC TGCTCTCTGTC
TTTAAGCTCA GCCAAGAAA

SEQ ID NO:2215: (Length of Sequence = 378 Nucleotides)

CACACATCCT CACCCACAG AAACGTCTGG ACACACTGAA GAACTGAAT AAAACAGATG AAGAAATAAG CAGTTAAAAA
AATAAGTGC CCTCCAAAA CACGCCCCA TCCCACAGCG CTCGCAGCT TCCCACCACC GCGCGCTCA GTTCTTTTGC
GTCTGTGCCC TCCCCAGCCC TGCAAGCCCT GGCCTGGCACT GTTGGCGCTG CATTCCTGTC TTAGTGATG CCTCTCTCTT
GTTGAANCA AAAGAAAATA ATGATTGTG TTTTITTAAG AAGAGGTATC TTAATACATN GTATCCTAAA AAGAGGAGCT
CATGTGGCAA TTGGTGACA GCAGGAGGAA ATTTCTTGGG ACTTNTTTAG GNTGAATT

SEQ ID NO:2216: (Length of Sequence = 428 Nucleotides)

GAACCCACAC TGGGGAGAAA CCATATGAAT GTAAGGAATG TGGGAAAGCC TTCAATTATT CCAACTCATT TCAGATACAT
GGAAGAACTC AACTGGAGA GAAACCTAT GTATGTAAGG AATGTGGGAA AGCCTTCACT CAGTACTCGG GCCTTAGTAT
GCATGTACGA TCTCAGTG GAGACAAGCC CTATGAATGT AAGGAATGTG GGAATCCIT CCTTACATCC TCACGCCTTA
TTCAACATAT AAGAACTCAC ACTGGAGAGA AGCCTTTTGT ATGTGTTGAA TGTGGGAAAG CCTTTGCAGT TTCTTCAAT
CTTAGTGGC ATTTNAGGNA CTCACACTGN AGGAGGAAGG CCTCTGAAGT NINAGATATG TGGGNAAGT ATTTTGGGGA
ATCCCCCAT GTCTTTAATA ATCCCCAT

SEQ ID NO:2217: (Length of Sequence = 408 Nucleotides)

GTACATCAGAG TTATCGTGA ACACCTGAA TGCCGGCTCG GGGGCCITGT CTGTACCAT TGATGGCCCC TCCAAGGTGC
AGCTGGACTG TCGGGAGINT CCGAGGCCC ATGTGGTAC TTATACTCCC ATGGCCCCTG GCAACTACCT CATTTGCAATC
AAGTACGGTG GCCCCAGCA CATCGTGGG AGCCCCCTCA AGGCCAAGGT CACTGGTCCG AGGCTTTTCC GGAGGNCACA
GCTTTNACGN NACATCCAAG GTTCTTTGTG GGAGACTNIN TACCAAGTCC TTCTTAAAG CCGGGGGCTT TCAGTTTACA
AGNTTCCATT CCCCAGATT TMTCTTCAA AATNNCCAGC AAAAGGTGGG TTGACTNGNG GGGCCCTNGG GNTTTTCCCA
GGGCTTTC

SEQ ID NO:2218: (Length of Sequence = 316 Nucleotides)

TTTACAGAAT ATAGCTTAT TTATAGAATC TTACAAATAA AACATTTACA GTCCACATAA GTTAATTINC TTTTCTAATT
TCTTCTATA CACCTGAGTT ATTTAAAAA ATACTGTGAT GGAAGTGCAG AACTGTAAAG GGAAATAAGA ACAATAAAAT
CCTAACCTCT CTTCAGAAA TCAGACAACT TGTTTTAA GTAGATGCC AGCATATTGC CATCTCTTG GAAGAGGACT
TACTATCTC AGCTTTACG NTACCCAAAC AGAGAAGCCT TCTTTTAA ACCCAAGGT AAGGGCCAG TGAAGG

SEQ ID NO:2219: (Length of Sequence = 319 Nucleotides)

GGCTTCTGT CCCACAATT TCTCAGGTG GGCCTGGAC ACAGCAGCCA CCACAGTCCA GGCTGCAGG GCAGGGTGTG
ACCTTGCCCG GGCAGCCACC CCTCCCTGAG AAGAAGCGG CCTCGGAGG GGATCGTCT TTGGGCTCAG TCTCTCCCTC

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CTCCAGTGGC TTCTCCAGCC CGCACAGCGG GGAGCACCAT CAGTATCCCC TTCCCAAATN TCCTTCCCGA CTTTTCOAAG
GCTTCAGAAG CGGCTCACC TCTNGCCAGA TAGTCCAGGT GATAAACTTT GTGATCGTGA AATTTTGTTC AAGACACTT

SEQ ID NO:2220: (Length of Sequence = 343 Nucleotides)

CTGGCTAACA TGGTGAAATC CCGTCTCTAC TAAAAGTACA AAAAATTAGC TGGGCGTGGT GGTGGGCACC TGTAGCCCCA
GCTACTTGGG AGGCTGAGGC AGGAGAATGG CGTGAGGCAA CAGTGCAGCC TGGGCAACAG TGCACCTCCT CCATCTCTAC
CAGCGTCCCC TCCAGTCTGC ACCGGGCGAGT CCTCCTGGGC TTGACCTCTC TGTACCCACA GCTGGGGGCC AGGCAGCCCC
CCTCTATCCC TCCCAGCACC TACTACATCG NCTTNCACAT CCTGATTCC TGTGTATTATG GGAAACTNTT NCCAGAGATG
GAGGTTCTCT CGGAGTATCT CGG

SEQ ID NO:2221: (Length of Sequence = 373 Nucleotides)

CTCTGTCTCC CAGCCCGGAG TGCAGTAGCG CAATCTTAGC TCAGTGCAGT TTTGACCTCC CAGGCTCAAA TAATCCTCCC
GCCTCAGCCT CCTAAGTAGC CGAGACCACA GCTGTGCGCC ACGACATCTA GCCAATTATT TGTTTTGTGT AGAGATGAGG
TCTCACTGTG TTGCTCAGGC TGGGTAGGTG TCTAACTCCT AGGCTCAAGT GATCCTCCCA CCCCAGNCTC CCAAAGTGCT
GGGACTACAG GCGTAGTCA CCGCGCCTGG CTTTGTITTA GGCATTCTTT TTCCGCAGCA TCTGTACCA GCAGCCTGAA
GNCATTTCTA TAAACAATTA TCANGGAAGA CACATGGGNC AGAGACCCTA AAT

SEQ ID NO:2222: (Length of Sequence = 197 Nucleotides)

GTCTCTGTGA ATTCCCCAA ACGGTTCTT GAGGATGTGA AACCAACTTA TTGGGCTCAA TCCCATTGG TCACAGGATA
CTGTACGTAT CTNCTTTCC AGAGATTGA TATCACCCAG ACACCGCCAG CATACATAAA CGTGTACCA GGTGTGCCCC
AGTACACCAG CATATATACA CCCTGGCCA GCCTTTC

SEQ ID NO:2223: (Length of Sequence = 280 Nucleotides)

TTTTTTTTT GCATTTTAG TAGAGACGGG GTTTCAGTGT GTTAGCCAGG ATGGTCTCAA TCTCCTGACC TCGTGATCCA
CCTGCCTCAG CCTCCCAAAG TGCTGGGATT ACAGGCATGA GCCACTGCGC CCGCCAACT TTTTGCATGT TTTCTTTAA
AATTCTCTAC TTTTAATTGT ACTTCTAATA CAGACACTTC TGAAATCAGT TTTCACATTG CTGCAGCCTT ACCAATTGT
AGANACTGTT TATGTGATGT TTTGATTCTT CATTTATATA

SEQ ID NO:2224: (Length of Sequence = 388 Nucleotides)

GATTGCAGGC ATGAACCACT GCGCCAGTC GAGTGGTAAT ATTTTGAAAG GAAACCTTTT TCTGAGCAGG TCTCAAAGA
GAGGTTAAAA TACTGAGTAG ACCATGCTGT AAACAGATGT GCTGTATTTC GGGCTTTGAT ATTCCATTTA TAAAGCACAG
GCAGAGCTCA GAGTAGATTT AATGTAATC TGAAGGGCAC TAGGATTTTN AGAATGGTAA ATAAGCATTG GCTTCAACTT
AAATTCAAAT CTGCATTGGC TTGTAATAAG AGACTAGCTT GTTACTGAAG CTTTNAAGCC AGTTGTITTC TCCTATCTAG
CTAGGAAAGT CCTAGATGGT ATCTACTTCC AATAAAAGGC TGTCTGGCC AGGCGCGGTG GCTCAGGC

SEQ ID NO:2225: (Length of Sequence = 420 Nucleotides)

GGTCGAGGAG CTTGGGCGG GCGGGCGGG GACTACTCCG GAGTCAGGAG GCAGCAGNGG CGGAGGACGA GGATCTCTGG
CAGTCAGGC CGCTCGGACG CCGCCGGCAC CATGGGCTGC TGCACCGGAC GCTGCTCGCT CATCTGCCTC TGCGGCTGC
AGTTGGTCTC AGCATTAGAG AGGCAGATCT TTGACTTCCT TGGTTTCCAG TGGGCGCCTA TTCTTGAAA TTTTCTACAC
ATAATAGTTC TCATATTGGG TTGTGTTGGG ACCATTCACT ACAGACCTCG ATACATAATG GTGGACACCG ATCTAATGAC
ATTCAATATC TCTGTACATC GGTATGGTG GAGAGAACAT GGGGCTGGT TGTNTCAAGA AGAGTGCTGC CTTCCCTCAA
GCCCCATGGC ANNGATGGAC

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SEQ ID NO:2226: (Length of Sequence = 264 Nucleotides)

GTACCTGCTC CCTGCCGGCA CCTTNTTGG TGGATATTTA GCTGCCCTCT ACAGTGGTTA TAACATTGAA CAGATCATGT
ACCTAGGCTC GGGTTTGTC TGTGTCGGTG CCTTGGCTGG CCTCTCCACC CAGGGAACAG CACGTCTTGG CAATGCACTG
GGCATGATTG GGGTTGCTGG AGGACTGGCA GCCACCCTCG GAGTCCTAAA ACCGGGCCCCA GAATTACTAG CTCAGATGTC
TGGAGCGATG GCTTTGGGTG GTAC

SEQ ID NO:2227: (Length of Sequence = 402 Nucleotides)

AGAGGATTGG GGCACCTGGG CAGGGGCGCT GGCACATTCC TCAGATTCTG GCATGTCTATC CTGGAAGTAC TCAGCCTGGC
GGTACTGCCA CAGACGCAAG TTCCCGTCCC ACGAACTGCT GACAATCTTC TCTTCAAAGG GGTGCCAACT GACGTACGCG
ACACAGGCCT TGTGGTTGGT CAGCTCTTC ACAATGTGGC CACTTAGAAG GTCGTACACA ACCACTTTGC CAGTGGAGCA
GCCACTGTAG ATGAACTGCT GGCCAGTCT ATGAATGGGG GAGAACCGGC AGCGGATGAG GGTGTGCAGC ACTCCGTGGC
CCCGTAGGT CATCAAGGAG CTGTCCCTG GGAGCTTCAG TTCCCGCCAG GCTTTTITNG GGCACCTTCT GCCACCGATA
GT

SEQ ID NO:2228: (Length of Sequence = 394 Nucleotides)

TTTAAAGTGG AAACAATGTT TTTAAGAGGT GATATAAGA AATGCCCCCA CTGTAATCCC TACCATATGT TGATTCTATG
TGGTGGGAGG GAGGGGAGAA TGATTCTTT TTCTAGAATC AGAGAATTTG GAAAGTATCA AGAAAGATAA TAACAGAAAG
CATGAAATAG AGTTGTGCTT TGAAGATGAA TTGGATGAAA TTTTATGTG AAGAGGAGTT TTCCAAAGTT GCAGACCCAG
GATTCCTGGC CAGAAGCATG AAAACGTTTC TTTCTTACTG TTTCTAGGAC CTAGGCAGCA TTTCTTCCAT GTCTGCAACA
ACATAAGAAA CAACAGCCCA AACAGCAGCA GCAACATTCA TCTGCTTTGG ATCCCATGGA CAGTCATGGT GTCT

SEQ ID NO:2229: (Length of Sequence = 342 Nucleotides)

TTTTTTTTAG GATGATTGAG TGTTCCTTTA AAAATAAAAA CCCCACAAAA AAGCCAGAAC ACCCTACCCA ACCCAGCCCA
GTGTAACAGG TTAGCCATTA ACACAGAATA AAGAAGGTCC CAGCCACACA CGTCACTACT CGGCAGAGGG TGTCCAGCCT
GGTCGSCGA CGTCACAGTG GATGGCCCTG CGTGGCTGGG ACACAGACAG GGAGCAGGCA TGGCACCTGC GCCACGCAGA
GCAGCAAGGC TGAGCATGAC CACTGGAAAT AAATAAACAT GGTGCCGACA GCATCTTTGA ATTAGTAAGA CGTTAGCACA
AAACAAAAA GCACAACGAC TG

SEQ ID NO:2230: (Length of Sequence = 357 Nucleotides)

GTGGAATGCA GCCATCACAC AGTAGTTTCT GAGATTGCTT CCGTCTAGGT TTTATGGGAA GATATTTCTT TTTCTACCAT
AGGCTTCAAG GCGCTCTAAT ATCCGCTTGG AAATACTACA AAAACAGTGT TTCAAACCTG CTCTATCAA AGGAAGGATC
CACACTGTGA GTTGAATTCA CACATCACAA AGAAATCTCT GAGAATCTT CTGTCTGGGT TTATAGGAAG AAATCCCGTT
TCCAACGAAG GCCTCAAAGC GGTCCATATA TCCACTTGCA GATTCTACAG AAACAATGTT TCCAAACTGC TCTATCAAGA
GGAATGTTGC ACTCGGTGAG TTGAATGCAC ACATCAC

SEQ ID NO:2231: (Length of Sequence = 304 Nucleotides)

AAGAGACGAG GTCTCACTTT NINGGCCAGG TTGGTCTCAA ACCCTGGTC ACAACAATC CTCCAGCCTC ANCTCCCAA
AGTGTGGCA TTACAAGCAT GAGCCACCAT GCCAGCTTA AGGGGGATAT TTTTATAGAG CATCTTGCCC TGGTCTGGA
ATTCTGTGA GATAATACAG TTAACAGATA TTCCCTAAG TGATTAGAA CCTTCCATT TGAATGATT TNCAGAAAAG
TTTACCTATG TAACCTCAGT GGGTAGCACA ATGCTGACA CATCTTGN GCTCAAATGT CTCT

SEQ ID NO:2232: (Length of Sequence = 354 Nucleotides)

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CCTGCCACTG AGGCAGGTGC GGCCCCAGGA CCATCACCAG GAATGCNAGG CCACCCTGGA CCAGAGGTAG GAGCCCAAGG
 TCCGGCCCTT GCTCTTTGAT TGTGGGAGC CTCCTGCCCT CTCTGGGTCT CAGTTGCCCC ATCTGCAGAG CGAGGAGGCC
 CGGGCTGGTT GGTCTTGAAG GCCCTTTTCC ATGCCGACAT CATGTCACTC TAGGCCTGGG GTTCAGTTTC CTGTGGCTGG
 TGATGCTGTG GTTAAGTTTG CTTGACCCCA GCAGCCCGAG GGACTGTCTG AGTCACAGCA CAGCCCTAT TCGTGGCTG
 CTGGTGTGTG GGTCAATTC CAGCAGATGA ATGT

SEQ ID NO:2233: (Length of Sequence = 414 Nucleotides)

CCCAAAGCCC GCACGATGCA GGCCACTNCG ATTCCACCAA GATGGACTGT GTGTGGAGCA ACTGGAAAAG TCAGGCTATT
 GACCTGTTGT ATTGGCGGGA CATCAAGCAG ACGGGCATCG TGTTTGGGAG TTTCCTGCTG CTGCTCTTCT CCCTGACCCA
 GTTCAGCGTG GTGAGCGTCG TGGCCTACCT GGCCCTGGCC GCACTCTCAG CCACCATCAG TTTCGCGATC TACAAGTCTG
 TTTTACAAGC AGTCAGAAA ACCGACGAAG GCCACCTTT CAAGGCCTAC TTGGAGCTTG AGATCANCTT TTCTCAGGAG
 CAGATTGAGA AGTACACGGA CTTGCCTGCA GTTCTACGTG AACAGCACAC TTAAGGAACT NAGGAGGCTC TTCTTGTCC
 AGGACCTGGT GGAT

SEQ ID NO:2234: (Length of Sequence = 394 Nucleotides)

ATAATCCGAG TGCTCCATCT TCAGTGCCAT CTGGACTUCC ACCAAGTGCA ACACCCINCA NTGTGCCITT TGGACCAGCA
 CCAACAGGAA TGTATCCCTC CGTGCCCTCC ACCGGACCAC CTCCAGGACC CCCAGCACCC TTCTCTCTT CCGGACCATC
 ATGTCCCCCA NCTGGTGGTC CTTATCCAGC CCCAATGTG CCGGGCCCTG GCCCCACAGG GCATATCTTA CACCAAATAT
 GCCCTTTNCA GAGTACCCA GACCATATGG TGCACCCACA GATCCAGCTG CAGNTGNTCC TTTAGGTCCA TGGGGATCCA
 TGTTTINTGG ACCCTTGGGC GNCAGGAATN GGAGGGCAGT ATCCTACCCN GTAATATGGC NATATNCATN INCA

SEQ ID NO:2235: (Length of Sequence = 376 Nucleotides)

CTGATATGAT GACAATAAAG GAGTATGCTG CTGCTGTTCC GCTTTGCGTC CTCGCTACAA ACGCCTGGTG GACAACATAT
 TCCTGAAGA TCCAAAAGAT GGCCTTGTA AAAGTATAT GGAGAAATG ACATTTTATG CAGTATCTGC TCAGAGAAA
 CTGGATCGAA TTGTTCTTA CCTGGCAGAA AGGTTGAGCA GGGATGTTGT CAGACATCGT TCIGGGTATG TTTTGATTCG
 TATGGAGGCA CTGGACCAAC TTCTCATGGC TTGCCATTCT CAAAGCATTA AGCCATTTGT AGAAAGCTTT CTTCATATGG
 TGGCAAAGCT GCTGGAATCG GGGGAACCAA AGCTTCAAGT TCTTGAACA AATTCT

SEQ ID NO:2236: (Length of Sequence = 399 Nucleotides)

TGGCAAGAAC ACTGAAACCC AGCCAACTTC TCCTCAGCTA GGGACCAAAA CCTTTTGTG TGTAGTCCTT CCGAGGTGG
 AGACTCTTCT GCAGCCAAGG AAAAGGTGCG GGAGACATGC GGAGACTCCG AGGTGGAGGA GGAGTCCCA GGAAAGCGCC
 TGGACGCGAG TCTACCAAC GGCTTTGGGG GTGCGAGGAG CGAGCAGGAG CCGGGCGGCG GCCTNGGGAG GAAGGCCACA
 CCCCAGCGAC GCTGTGCCTC CGAGTCCAGC ATCTCCTTCA GCAACAGCCC GCTCTGCGAC TCGAGCTTTA ATGCGCCCAA
 AINTGGGCGG GGGCAAACCG GCTCTGTGTC GACGGCACAC GCTTGGAGGA CCNCAGTNAG CTGATCTTCT GCATCGAGA

SEQ ID NO:2237: (Length of Sequence = 234 Nucleotides)

AAANTACTAA CATTTTAAAT ACAGTCTGAT CAGATCAATT CACATCACAA GGTCAACCNG GGCTTGCTCA CATGTGNAC
 AACTGAGGNA CACAATGTCC CTACCTGCCG GCTGTCCAC CTTCCTGGTT CCCAACAGCA TTGAAACCCC CTACTTCCCT
 GACCAGACTG GCATTTTTTA AAATTTTGCA TAAACTATF TCTTCCATAG NCTCAAACA ATCAACTAGC CAAG

SEQ ID NO:2238: (Length of Sequence = 369 Nucleotides)

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ATTTAAGGCT GTACTTAACT AATTGGGGCT GAGGATGAAT ATATCAGCCA CAGCACATTA AAGAATGAGC CAAGGATTTG
 TCATGGTTGG TCACTTTTTA AAGTATTGA TTACTGCAAC TGGAGAATGA AAAGTGTATA TTGGTGACGC CAACCTCAGT
 TTCIGAGCAC TCTGCTCTG TGGTGAAT CAGACAAAAA TTCATCGGGG TGAATAAAAAA AAGGCATTAC CTGATTACA
 CCTTGTCTT GCTAGCCCTC TTCCATTAT TTCTACACA GCATTGTCT CTGTAAATC CTCTCTCTG CTCAGACCAT
 TCGTGGCCC TTCAAAGGT ATGGTTCAGG CTCCTTTCAA GACATTGG

SEQ ID NO:2239: (Length of Sequence = 399 Nucleotides)

TTAATATAAT ATCAAGTCT AGCATTGCT ATTACAACA AATAAATATT GCCCTCCCC AATCAGTAAA CAAACATTTT
 TTTTTCCTT TTGCTTTTA TACAAATATT CAATCACCCC ACCCCACCC CAAATCCTCC TTCTCACTA ACCCCGCTC
 TGCATGGTCT CGTAAAGCCC AGGACGCAGT GGTAATGSC ACTGTCAGTG GCATGAGATT CAACATCGAT GGGACTCAGC
 TGGGACTGTC CTCACTCACC GGGTGCAGAG TCTGGTCCAT GAAGAGGGNT TCTNCTCTG CTCCAGGGG AGGGCTGGGG
 TAAGCGGTGG GTGAGACTCC CTCACTCTCA GTTGGNCTG ATGATGGAAT CTTTNGTGCA GCCTGAGAAA GGCTAGAGT

SEQ ID NO:2240: (Length of Sequence = 388 Nucleotides)

TTTTCAGAAT TCATCTCTGA CTTTAAAGGC TTAAGCAAGA ACATGGTTTC CGTGGCTCCC CCTGGACTGA ATGCTGGAGG
 ATATATACTT CACAGTCTGA GGCCTGGTCC CAGGAATGTC AATCTAACAG GATGGCAAGT GGTTTTGAAG CATATAGATT
 TTCAGGATGG AAGTTTGATT CTCAGATTG TGAATCATCC GTGGAAAATA AATGGTTTAG CACCTAAATC TGTATATTCC
 CATCAGTGGC TTGGCTGACT CAGTTGTAAA TAGGGTACCC TCCATCTGTC TCCCACCCAT ATGCTCCACT GTCCCCAGGG
 CCTCAGTGCC TGANCCCTAG GGGGATTCGA GTTGGCTGCT GGATTCATT CCTGCAAGCA GGCTGCA

SEQ ID NO:2241: (Length of Sequence = 377 Nucleotides)

CTCCATTTTG TCCTAGTTAC TTTTAAAGGTA TAAGCTGAAG TCATTGATT GAGATGTTTC TNCITTTCTA ATATAGGTGT
 TTAATGGTAC ATATTCTCC CTAAGTACTG CTTTAGTGGC ATCCTGCAAA TTCIGACATA CTGIGGTTCA TTTAATTCA
 TTACAAAATA CTCCTTAATT TCCCTTTGA TTTCTCTTT AATTCATGGG TTACTTAGAA TTGTTTATT TAATTINCAA
 GTACTTGGCG ATTTATCTCT CTCGTATT CATGCTAAT TTAATCCAG TGTGGTCTGA GAATATATT NGATATCAAT
 AAAGCTACTC CAGCTACCTT TIGATTAAATG TTATCAGAT ATATCTTTT CTATCT

SEQ ID NO:2242: (Length of Sequence = 381 Nucleotides)

CCCACATTAA CCAACACAC ACACACATGA CAAACTCTAA GTCTCCAGAC AGACACCTC AATAGGCAC TTGGTGTCTT
 CAGCTGGGGG CTGGAGAGAT CTGGGCTTT GGCCTCAAA GGNAGGAGCT GCTGTCCCA GAGAGGAGAC AACAGCTTCT
 GGAGGCTCTG GGGACTCATT GGATGGGTAC TGGCTAGGTA GATGGGAAGG GGGCTGTTT AAAGAAGACC CCCCACCCCC
 ACTGCCCAT TCACCACAAC AGTGACTTGC TGAAGTTTT GTGCCCTCG GATTTCGAA TATAGTGGAC AGGCATTTCT
 AAAGAGCGCA TCATGAAGG GGCAGAGGCT NGCCTTAAA TGTGGGCTTT GCATGTTTG G

SEQ ID NO:2243: (Length of Sequence = 359 Nucleotides)

ACCATTTATT AAATCAGACT GTTATCTTA ACAGTTATGT AAGTTACATG TATGTTAAG TCAGAGTATT TCACATGGAA
 AAGTTTTTAA CTCCTATAGG CAAGCAAAAT CATATCACAC AATATATAAG TGGGAAGGGG ATACTGCTAA ACATTCAAAT
 AAGGCAAGTA TATAAACCA ATAAACAAT AATGAAAAA TTCAAGCATT CCTTAAGAG AATTCACAC TACAAGCTAA
 ATGTACTTTC TGAGTGTATT CGTATAATCA AGGCAGTGT TCTCCTTTA AAACATCAGG AAATGGAATA AGGCTCATTA
 GTAGATACAG CTGCCCTCAA GATTCAATT TCAGTTTG

SEQ ID NO:2244: (Length of Sequence = 362 Nucleotides)

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ATATGTACTA CATTGTGGTGG AATACGCATG TACAATTCCT CAAAAATAGT AAAGAGCAAA ACAAAACAAA AATAGTAGAA
GCACTGGAGA AATACACTAT GGCATAAACT AGTTACGGGT GGGATGTCAC ATGGACCATA TCTACACTCT GTGGCAACCT
TCTTACCTGA CTCCAAAGGA TCAGATAATC AAACAGGAAA TTATGGTAGG AAATCAGAAA ATTGAAGTAT GCATTTCATAT
CCTAAGCATT TTATTTTAGC TCAAAATATA AAATATTCAT CAGTTAGCCA AGCTTTGGGA TGAGAGATCA TAGCCTCCTC
TTTGATAGGN GTTCTTGTT TTCTTGATTT CATGTTTCAG AG

SEQ ID NO:2245: (Length of Sequence = 333 Nucleotides)

AAGGATCTGA GCGAGTTCAG TGTCATTGTG GGCAACGGGG AGATTAAAGCT GCCAGTGGAG ATCAGTGGGG CCATOGAGGA
GGAGTTCCT GTGGCCCGAC TCTACATCAG CAAAATCAAA TCAGAAGTCA AGTCTGTGGT CAAGCGGTGC CGGCAGCTGG
AGAACCCTCA GGTGGAGTNT CACCGCAAGA TGGAAAGTAC CGGGCGGGAG CTCTCATCCT NCCAGCTCCT CATCTCTCAG
CATGAGGCCA AGATCCGCTC GCTTACGGAA TACATGCAGA GCGTGGAGCT AAAGAAGCGG CACCTGGAAG AGTCTTATGA
CTCCTTGAGC GAT

SEQ ID NO:2246: (Length of Sequence = 347 Nucleotides)

AAACTAGCTT TGGTGGGAAC TCCCTCACCC CTGCTCCCA CAGGAAGGCA TTAATCTATT TATGAGGGAT CTACCTGCTA
TAACCCAAAC ACCCCACCAG CCCCATCTC CCAACACCAC CACACTGGGG ATTAAATTTC AATGTGGGAT TTGGAGAGGA
CAATATCCA AACCATAGCA GTCTTAAAGT ATTTAAATTA GAATTTAAAT TAAATTTAA ATTACAGTAT TTAAATTAGA
ATCATTTGTG GAGTTCTTAA AAGGTATGCA TTCCTAGGCC CCTCTCAAGT TAGATTTATG GACACTGATC CCCAGTCTGG
AATTTTAAAA CAGCAAATC TCATACT

SEQ ID NO:2247: (Length of Sequence = 357 Nucleotides)

CACAGGACAT GCTCCGTCAG CACAAGCACT CCCAAGTCAA TCTGAAAAGC AGGCAGCAGC ATTGCAGGGG ACAGGTCTTC
CCCTGATCTG GGTGGTGGTC TTCTCCCACT TAAAGCACTA TATACAGGGG GAGGTCCCAG GCTGGACATC TTTACCAGGG
GCTGGGAGAA AGCAGGCGGT GCTCTGTGGT CTCAGAGTCT TCCTGCGCT CTTTGGAAAC TGACAGAACA TGACCTCAGT
CCCAGCCAGC GAGTGGCAGA GAGGACTTTG TACTTGGCTG CAATAAAACA TGCCCTTCCT CGCAGAGACA CGAACAATCT
CGTCTCTACC AGAGGCCTGT GAGACATCAG CTCAGGA

SEQ ID NO:2248: (Length of Sequence = 327 Nucleotides)

TTCTCTTTAT TAATGGCTAG AAAGTCAGGT TCACCCAAGG AAGTCACTGA GGGGCCACAG CATTTGAAGGG TATGGGGTTT
GGAGAGATAG GAGCAGGACC CACCACTCAC GTCCAGAAC CAGGGGCGAC ACCTGGTCCA AGAGGTGGAG GCATTGGTCA
CTGGAGTCAC GAGGGTCAGG ACAGGCACTG AGAGGCTGAG GGAGTNTCCG TCCGGAGGGA GGCAGTCACG GGCTAGGGCT
GGGAGTCGTA GCCAGTNTGC AGGGCCTGGG AGCCCCAGGG CTGATGCCCT GGGCTGGCGT AGTACTCCAC CACCTGCCGT
GGCACCT

SEQ ID NO:2249: (Length of Sequence = 404 Nucleotides)

ATTTTAAATT TAGGTTTGTT TTATTTAAGT TTAATGTTAA TTCCATGCTG TGTTTCAGTA AGAACAATAC AGATTCTGTA
TCTGTGGCTC CAGTCAGATA TCCAGTAGTA CAAATTAGCT TCAAGTACA CATACTGAAC AAAAGAGGTT GAGCGAGCGA
AGGAGGGGAG GAGTGAGGGG AAGGAGGTAG GGGGAGGGG AAGGAGAAGA AACAAAAGNN TTGAACAGGC ATGCAGGCTT
TTCCATACCA CCTTCAAGC TAACCTGCTT CAGTGGGAGA GTAAAGTAGG CAAGANTGAG CAGCCACGGG ATTGTTGAAC
TGTTACCCAG CACCATGCTT TTCAGCAACA TTTTCAGCGG AGTTTGGGAA CATTTTTTTA CCAGCAAAAA CCATTACACC
GAGT

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SEQ ID NO:2250: (Length of Sequence = 275 Nucleotides)

TGCCAAATAT ATATATCTGA ACATAGTGAA AAAGTAACAT TTAAATCAG TCAAATTATT TTAAAAATTC CTTTGCTTAA
TAGCCATTAC TTACTCACCT TTTGTTTTTG TTTTINCCIT CAACACTAG AGTACTGTAC TTTTGCTTTC ATTCCCTCIA
TACATTCTGC CTTTCATCCT AAATTGTTCA ACTCGATAGT GCTAATATTG GTAGATAATC TACGCTAGCT GCTGTTTCTT
GTACAGAAGT TGGTGTATAT CGCTGATTCA CTTTT

SEQ ID NO:2251: (Length of Sequence = 426 Nucleotides)

GGAATAAGGA GATGAGAGCA TGCTCTGCCA ACTGGCTGGG ACCTGAATGT GCTAGGCAAG TNCCACTACA TCAGCTCAAG
AACATAAACA AAAATGTAAT TTAAAAACA GATGGTTTTAA AAAAATATCT GATAAAAATT ACCTATCCCT CTCCCTTGCT
GTGAAATAAT TTAAATAATT TATCTAGAT GTAAAAATAA TAATACAAA AAGTTTGTTT AAAGACACCT GTGTCTGT
TGTTAAGTGT GCAGTCTGGG TCCCTTGGGG TGGAGGGAGC TGGCCAAGGA ATGGCATTGT GCAGAGGCAT ACCGGGAAGC
TCTCTGGATG CAACCCACC TCTACCGCTT GGCAGTCAAT GACCTTGGGC ATGATGTTTC TTCATTCTC TGAGGGCTAG
GGCTTTGATT CTGAACATGG GGGGCT

SEQ ID NO:2252: (Length of Sequence = 315 Nucleotides)

GAAAAGATAA ACAAATTA TAGACCATTA GTGAGATTAA CCAAGACAAC AGGAAAGAAG ATCTTAATAA GCTCAATTAG
CAATGAAATG NGAGCTACTA CAACGTATAC CACAGAAATA CAAAAGATCA TTCAAGGCTA CTATGAACAC CTTACAGTGC
ACAACTAGA AAACATAGAG GAGATGGATA AATTCCTGGA ATTTTAAGAN TAATACAATG GACTTTGGGG AATCAGGAGA
AAGGGTAAGA GTGGGGTGAG GGATAAAGA CTACACATG CATACAGTGT ACACTTCTTG GGTGATGGGT GGGC

SEQ ID NO:2253: (Length of Sequence = 335 Nucleotides)

AGATTTATTC TCATGTACAA AGCGGTGAGC CCACGGGACC ATATACGACA GTTGCACAGA GTCTTAGAAA AACGCATCTN
TCTAAAGGCA ACTCAGAAAG GTAAGGCAGG TGGACCCCTT CCCCCACCC ACAACGCACA CAGAAATGAAA CGGAGAAAAA
GAGAGAAGCC AGTGGCCGGG CTGACCCAAG AGTCCCGGCC CTATGGGGTC TCCCAAGCCC CAGGGCACAG GTGGATATGG
CCTTGAAGAG AGAGCCCTGC CAGGGCTNAG GCCAGTCTC TCACTGGCTG CAGGAATNGG TAAGGGGCTC AGGCCAAGGG
GAACACTTCA GGGGG

SEQ ID NO:2254: (Length of Sequence = 380 Nucleotides)

GGAAGGCTCT GGAGAGGTC CTGCAGGATT ACTTTGATGG CAATCTGAAG AGATACCTGA AGTCTGAACC TATCCCAGAG
AGCAATGATG GGCCTGTGAA GGTAGTGGTA GCAGAGAATT TTGATAAATA ATATACAATA ATCAGATCCA CTTTCCACCA
CCTACACAAA AAACATTICA TACAGACTGC AGTACAGTGA TTTTTTTT TGAACATAAA GGTCAAAATT GTTTCATTTT
CTCTTCTGCA GATTCTAAGT AAAAAATGAC AAAATATGCA TAGAGATGTT TGTAAACCAA AAATAAATGT CTAGGGCCCC
GAACCCATCT GAATGGGACC CCTCCTCTCA GCCAAGGGCA TTCCAAAATT AACCTGCAAA

SEQ ID NO:2255: (Length of Sequence = 399 Nucleotides)

ATATAAAAAG TGTTCCTGTG ATTCINCAGA GCCCAGGAGT CAGTGTGGT GGTGGAGGG ACCTGCCCCC ACTGGTTTCAT
TTAACCCTCT GTCTCGGTGC CCTCAGAAC TCAGCCAGAA AGGCAAGGAG GAAATCAGAG CAGGAGCCTC ATACTCTTGG
TGATCTATTC ATTCTGTGAC CTCAGGGGTC ACATATAAGG TCAGTGTGTT TGTCCCCGC CGGATCTGCA CTGCCAACTG
GGATTGGGTT CGAACAGCTT CATAACATC TTCAGCATTT TGTACCATCT GCTCCCCAAT GGCCAAAATC ACATCACCAG
GNOGCAGACC CAGCCCGGTG TGCAGGGGAG CCCAGGATGA CTTTATGGGA TGAGTACANC ATGCTGAACA TCGGGAAG

SEQ ID NO:2256: (Length of Sequence = 371 Nucleotides)

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TTTTTTTTTT TAACTGTAAA TGCTATTTTA TTTTAAACAT TTTTGTTTAC AAAAAAAAAA AAAATCAATG ATTGGTACCT
TTTTTACACT CTCAGATTCC TGAATATGGA CAGATCTTCA AAGGGAGGAA GGAGTTCTCA TATGAAATTT AAGATAGACT
GTCTTGAAGG TTGTGGGGTG GGGTTTTTTG TTGTGTTTAA ATTGCTTTTT GTTTTTAAGN CACAATAAAG CTAAAATGTC
AAGTCTCTGG GAGAGATCCC CTAAAGTTT CAGTCAAGGA GCATATCAGA GCACAGACAA GGNGACCCCA GCCTGGTGCC
CGCCGGCCCG TCCCGGCTGC CCAGNGTAT TTGGTAGCGC ATGGGTTGAG A

SEQ ID NO:2257: (Length of Sequence = 372 Nucleotides)

AACCTATAGG CACTAATGTA TGATGGATTG ATTTCCAGAC TGTCGGCCAC GGAAGCACTT CTTCATGGCC TCTGCCCTGG
ACAGCAGCCT GTCTCCGGG CTCCCATGT TTTTACCAGC TTCTGCTGAG TTCTTACAAT CTGAGCTCT GCTGAGAATT
CTTTCTCTTG AAATCTTCT ACCTAAAGCC CCAGCCCCCA AAAGAGCATG TCTCAGGAAC TCATTATGCC CTGAGTCAAC
AAGAACTTGT TGATAAATGG CTTAAAAGTT TTTACAAGAA GTAACCTCCC TTGGTAAGGA GTAAATAATA GCTCTGGGAA
TTTTCCAGAT AAAACTATTT CATTTCTCTG GTCAGTGGCC CCATGGGGAG AG

SEQ ID NO:2258: (Length of Sequence = 340 Nucleotides)

CTCAGCCTCC TGAGAACCTG GGATTGCAGC CTCCCGAGAA CCTGGGATTG CAGGCACCTG CTGCCATGCC CAGCGAAGAT
TTGTATTTT TAGTGGAGAC GGGGTTTCAC CATGTTGGCC AGGCGGTCT CAAACTCCTG ACCTCGTGAT CCACCGCCT
TGGCCCCCA AAGTGTCTGG ATTACAGGG TGAGACACCA CGCTCGGCCT TTATATATAT TTINAGAGAG GGGGTCTCAT
TTTNTGCCC AGGCTGGTCT TGAATCCTG GGCTCAAGCA ATCTTCCGC CTCAGNCTCT CAAAGTGCTG GGGATTACAG
GCAATGAGCC NACCGTGNCC

SEQ ID NO:2259: (Length of Sequence = 394 Nucleotides)

CCCCCAGAT CCCACTGTTA GGAGAACGCC TCTGCTAACA TTTTCTCTAT CTGTGTATCC TCTGGGAATG AGACCCACTA
AAGGGCTAGA GTGTGCTCA GTGTGAATTC CTCCTTCTCG ACTCCATCTT CGCGGTAGCT GGGACCGCG TTCAGTGGC
AATATGCAGC TCTTTGTCCG CGCCAGGAG CTACACACCT TCGAGGTGAC CGGCCAGGAA ACGGTGCGCC AGATCAAGGC
TCATGTAGCC TCATGAGAG GCATTGCCCC GGAAGATCAA GTCTGTCTCC TGGCAGGCGC GNCCTGGGA GGATGAGGCC
ACTCTNGGCC AGTNCGGGGT GGAGGCCCTT ACTACCTGG AAGTAGCAAG GCCGCATGCT TINGAGGTAA AGTC

SEQ ID NO:2260: (Length of Sequence = 359 Nucleotides)

TTTTTTTTTG AGATCTGAGA TTCTTTAAT CAGAAGCACG TGCGTCCAC AGTGTGCTCT TCAAGCCCCA AAGGGCAGCC
CTCTAGGACT GCTCCTTAG AGCGAGGCTC GGGCTCTTGG TAAAAAGCA TTGCTTGAT TTTATTTAAA CAATGGTGAA
TCTTCAAGGT GCCAGTCTAC ATGCCCAACA GTCTCCAGG NITCAAGNC ACAGTCACCG TCACTCAGAG ACTGCCTCAT
TTNGCAAGAG AGAAAAACAG TGACCACCAC AGAGGCGAGG GAGTGACAAA GCTTGTAGGC TAATGCTGCA AAAGCCGCTA
GAAACTGGGG GCCACACACA AGNGCCANC AGGTGCGCC

SEQ ID NO:2261: (Length of Sequence = 360 Nucleotides)

TTTTTTTTTT GAGACAGAGT CTCGCTCTGT CGCCAGGTTG GAATGCAGTG GTGTGATCTC AGCTCACTGC AACCTCGCC
TCCCGGTCC AAGCAATTCC TCTGCCTCAG CTTCTGAGT TGCTGGGACC ACAGGCGCAC GCACCAGCC AGGCTAATTT
TTGTATTTT AGTAGAGACG GGGTGTACC ATATTGGCCA GGCTGTCTC TCGAAATCT TAAATCCAAA CATTTCTATT
CTCTAGATC CTTGCTCAG GCGAATCGTT TCATCTTCC CTTATAGCTC ATCAGCATGT AAGTGTCTTG ACATCTCTCT
TCTCTTCCC TATTAGCTCT CTACTCTCTN CANTTACAG

SEQ ID NO:2262: (Length of Sequence = 348 Nucleotides)

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CTGTCAAAAA TGTATTATAT CAATAATTTT ATCAGCAGCA TTTAAGAAAT AAGAAATCAT TAGACAATAG AAGACAAACA
 TGGTAATGCA GTCAGGCCAG CACACAATAC ACCGTTTTCA TCACACACTG TAACCTGAAT CCCTGGCAAT TTCCTAGAGG
 TATTAAATC ATACCTTTAT AAGAATTATT GGGCCCNAGG AGTNGGGGGG TGGGGGGGTT GCAATCTGTC CAATCAACAT
 CTGGCTCTTA CTCTCTCCN GTAGTATTAC ATTTGTATAA TATCTTTATA GGAAACAAC CAACTCCATG TTTATAAAG
 CACCATACGG TTTTCCATC CTGTACCA

SEQ ID NO:2263: (Length of Sequence = 352 Nucleotides)

CCCCAAAAGT TGACATGGTC AATGAAGAAA TAGGCAACA GCAAAAAGTT GCAGTCATAC ACCAAATGAA AGAAGATCAA
 AGCAAAATCC CTGAAGGAAT CCAAGTTGAC TCTGACGGGC TAATCACCAT AACAACCTCC ANTAACTTG CCAGCTCAG
 TGTTCGAGCC ATGCCCCCTC CAGAAGAAGT CACCCAGNIT CTGGAAGAAA ATAGTGANIT GATTCGTTCT ATGGAGCAGT
 TGACATCCTC TTTGAATNAG GGTGAAAATA CTCACATGAT TCATCAGAAG ACCCNNGGA AAATTTNGGA ATTCAAAGGA
 AAACTTNAG CAACANCTAA CAGGGNGTG AT

SEQ ID NO:2264: (Length of Sequence = 381 Nucleotides)

GCTTACAGTC TAGAACAAGC TTTCCAGCC CACAGCCAG GATGGCTTG AATGTGGCC AACACAAAT CATAAACTTT
 CCTAAACAT TATGAGATCT TTTGTGATT TGTGTTTAG TTCATCAGCT ATCATTAGTG TTAGTGATT TGTGTGTGG
 CCCAAGATAA TTCTTCAAT GTGGCCAGG GAAGCAAAA GATTGGACAC CCCTGGTCTA GAAGGAAGG CAAATATTAA
 ATAACCTCAG AAAGTGATAT TACAAATGT GGTGAGTTAT AAACACACTA TCAGGTGTTA TAAAGGAAGT GAAGGAAGTG
 GTGAGGAAAT TCTTATCAGG GNAGTGATAT TINANTGAAG GGCCTTAGGG GATGAGTAGG G

SEQ ID NO:2265: (Length of Sequence = 301 Nucleotides)

CACCTCTCTT CCACTCTGCC TTTCCACAGC AGTCAGTCTG GTCCAAGCCA CCATCATCTG TCACCCAGAC TACCATAGCC
 ATCTCCTAAC TGGTCTCCC ACTTGCGTC TTTATCTGC ACACAGCAGC CTGAGTTCAT ACACACAGT GCATTCTTC
 ATATTTTGT TAAACTGTT CAATGGCTTC CCATGGAAGT TGGGAGTCTG GATATCTTCA CAAGTGTGIN GCATGGCCCA
 GGACCAATCT GGACACCCCT NCCGTGTTGT NCATNCATGC CTTGCACCAC TTTTGGCCT T

SEQ ID NO:2266: (Length of Sequence = 360 Nucleotides)

CGCCTGCATG CCCACAACA ACACAACCTT ATTCTCTCC CAAACATCTG TCAGGCCTGG CCTTCTGAG CAGGAGCTGA
 GCAGGAACAG GGCTTGGCTG CCTCTCTCT GCCACAGCTC TGACCTGGG AAGGCTGGA GCTGGCATCG TAATGGATGG
 GGGAGTGGGT GGAGGATCTG AGGGTCCCCT GGGTAGGTTT CGATACCTTG GACAGGIGGG CCTCATCTG ACTTAGAACT
 CGGGAGGGG CCACCTTCTC TTCCCTTCT TCCAGCAGCA GCTCCACCAC CCTCCACCTT CTGTCTCGA CATGTGNC
 AGAAAACCA GCCATGAGG ACCGCTNTGA GGAAGGTTCT

SEQ ID NO:2267: (Length of Sequence = 391 Nucleotides)

GATGGAGTCT CGCTCTGTCA CCCAGGCTGG AGTGCAGTGG CAAAATCTCG GCTCCGACC CCCCCAAGAC ACATATGACC
 CACCACCCCA TCTCTGACCA TGAGGCCACC CTGAGGTGCT GGGCCCTGG CTTCTACCT GCGGAGATCA CACTGACCTG
 GCAGCGGGAT GGGGAGGACC AGACCCAGGA CACGAGCTC GTGGAGACCA GGCTGCAGG GGATGGAACC TTCCAGAAGT
 GGGCGGCTGT GGTGGTGCT TCTGGAGAG AGCAGAGATA CACCTGCCAT GTGCAGCATG AGGGTCTNCC CAAGNCCCTC
 ACCCTGAGAA TGGGAGCTTG TCTTCCAGC CCACCATTC CCATCGTGG CATNATGCT GGNCTGGTTC T

SEQ ID NO:2268: (Length of Sequence = 191 Nucleotides)

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CTTCTCTCTC CIGTTCACAC AGTATTCGAT TATTTCAATG GCTACTTTCA GAGGATCAGC TAGAGGCTGA TGTGTGTGTTT
CAATGGTAT ATTATTTATG AACTGAGAGT AGAAGAAAAA TTTGAGAGCA GGTTTTTGGA AAAAATGAAT TTAGACAAAT
ATTTAGTAAC TGTATGATAT ATAACCCCC N

SEQ ID NO:2269: (Length of Sequence = 237 Nucleotides)

TAGAAGCATT TTTTAAACAA CACTCAACTT TGTGAACCCC TGAAGATTTT TTGACCGTTC CAAGTCTTAA TGCCACACCA
CTATTCCAGC GAATTTATGC TACRACTGGT AACAAATGACC AGAAGCCTGA AGAATTAAAA TGCCAACACC AAACCTTTCC
NTACCAGCTC TGGNCTATAT TGCTCCCATG CATTTAATAT ATTATNINGT TTTATANCCA CTCTAAATA TTCTCAG

SEQ ID NO:2270: (Length of Sequence = 223 Nucleotides)

AAAGGTAAAG GAATTCCTTT TATTTTTTAC AAATTAAGAC TATGCAGATT TCATATATTT CTGAATCAAA AACACCTTTG
TCTTCACAGT ATGAGTTAGA ATGCAGCCTG AGCTGAAAAT CAAGAACTA GAAAAGAAAG TGGTAGAGAT AACTATATTA
AAAANCIGTT AGGTATTTCC TTTAAAAGTA GGTGTTTTTT TTTTTTINCC NCTTTTTTTT TTT

SEQ ID NO:2271: (Length of Sequence = 363 Nucleotides)

TTTGATGGGT GAGGCTGGTA GAGCCACTGG GAGAATGTGG GGCAGTGAGG GGAGGGACAT CTTCTAGCA TCACCAGCAT
CCTGAGCTTT GTCTGTGTTT GGGAGTCCCA CAAGGGCTGG TGCAAGGNTT AGCAGCTGCT ACTTGAACCC TAATCCCTGG
GTGGATGTGG TCTCTGTAA CTTAAGAGCA AATGTTTGTN ATGACATGCA CGGGTGGGCA GAGGTTGAAA AGAACAGGGG
TCTACGGAGG AGCCAGGCCA GCCAGGTGAG ACCCTTCTTT CTAAGTTGGC TTCTTGTTCA TTCTGGGGA TTNGGGGAAA
GAACGACAGA ACTTACCTTC CATCTTCCTT CTCACAAGCA GTG

SEQ ID NO:2272: (Length of Sequence = 150 Nucleotides)

CTCCCCCTGT AATCCAGCG CTTTGGGAGG CCGAGGCGGG GGGATCACGA GGTCAAGAGA TCGAGACCAT CCTGGCCAAC
ATGGTGAAAC CCCGTCTCTA ATAAAAATAC AAAAATTAGC CGGGCATGGT GACGTGCACC TGTAGTCCCT

SEQ ID NO:2273: (Length of Sequence = 330 Nucleotides)

TATATTATGT TAATAAAATC ATGTATAAGC AAAAGACCTA TGAAAGTATA AAACAGACCA ATGGATTTTA GTATAAAAGT
ACAAAACGTT CATTGAGGTG GGTTCAGTTT TCCACAAAA ACTAACCTTT AAGAACTAC CACTTATCAA GTTTTGGTAT
AAGGTATAAT ATGAAAGANG AAAATCCATA ATTATTTGAA AAACACGNTT TAAATACITT CCTTTTTTCC TACTACATAT
CTCTATTAGG CTGGGTTTTT TTCACAATA ATTGAATACA AAAACAAATA TGAGNATTTA GCTGTAATCT AITTAATCCCG
ACATTACAGG

SEQ ID NO:2274: (Length of Sequence = 372 Nucleotides)

AAAAAGCCAG TTGCACTGGT ATATGCCTAT TGTCCAGCT AATCAGGAGG CTGAGATGGG AGGATAGCTT GAGCCCAAGA
GTTTGCGACT GGGCCTGGGC AACATAGCAA GACCTATCT CTAAATCAAT CAATCAATCA AACAGTGGTA TGCCACCCAG
AATAAGTATC TTTTTGAAG TAAAAACAA AAAGCGAAT GGGACAACA GGTCTGGTAG TGGTGGCTGT CTGTCACTGA
CAATGAGGTC TCTGCAGAGC CGTTCCCTAC CTTNCCCAAC CCCCTAGACA TCAGGTCCCT TTCCTAGGAA AATGAGAGCA
CAGACCTAGG NCCATGGNCT CCCAACTTT TTCTTCTCTT CACTACAGAT TC

SEQ ID NO:2275: (Length of Sequence = 370 Nucleotides)

CTTATTCTTT TCCTGAGGAT GTTGGTTTTA TATGGATTGT CTTTAAGCAT CACTTGGAAG CGCTACAAAT AATGCAGCTA
AATGTTTAAAG CAATTAGGAA ATAGGAATTT TTAAATACAG AATTTTGCAC TGCAGAGTGT TTACAAGTAT TAAAAGATTG

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TATTACACAA CIGTTGTAA ATTCTAGTAA GATAAATTGA TACTAAAGAA AACAAACCCA GAAAGATCAA GTGACTTGGN
TCACACAACA CAGGNATTAA GANGGAAATT AGTATTCTTT GTTGGAAATAT TTTCATTTG AATAGTTACA GGAAAATTTA
TTTGCAATTT TTACAAATTA AATGTGTATT GGACATCATA GTGGGGAAAT

SEQ ID NO:2276: (Length of Sequence = 349 Nucleotides)

TCTCCAGGTC CTGGAGGCAA CCGCAGAAAC AGAACANIGC AAATGCCAGC ATTTCCGCAG ATAAGCGTGG CCCGCCAGCT
GCAAACACCC CTGACATGCA GCGTCTGTT TAAATCTGG TTGCCCGCTG CAGCCAGTGG AGCTCAGAGG GCTGCCTGGC
GGGTAAGGAC TCCAGGCACA CAGCAACAAG TGGCTGCCAC CTCAAATCCC ACGTGGGAATA TGATGGGGTC CGAGCCAGCC
AGTAACTCCA NGAGGGCTGT AGTGTGTAAG TTCGGCCAGA GTTINCAGAT ATAATANCAT TGGCCCCACG ACGTAGACCT
GTGGCGGCTC AGGGTAAGA GACGGGAGC

SEQ ID NO:2277: (Length of Sequence = 182 Nucleotides)

CTTTATATAG ACTCTGGTTC TAGAACTCG CCTGCAGCCG CTGGCTGGAC CAGCACAGCG TGACGGGGCC GGACTATTTA
CAGGCCCATT GCGGGCTGTA CCTTGGCCAC CTNCGGCAC GGTGCTCAGC TGTGACGCA AAATAAGTTA GGGCCGGCCG
GGCGGGCGG GCGGGGACG GG

SEQ ID NO:2278: (Length of Sequence = 276 Nucleotides)

GTATTATTTT CCCCAAATGA AGCAAAGCAA GTACTGGGGC GGAGTCATCA GAAATACCTT GGGAGGTGGT GGGGAGGGGA
GTCCGGAGCA TCAGGGAAAA CCCATCTCAA CTCACGCTC TCAGGGGTG CAGCTGGAAA NCTTTCGTT TTCCATCACT
GGTCAGAAA GAACTTCCCC AGGAATGGCC AGTGGCCTTT CGCCCGTAAC AAGGCGCAC GCTCAGAGCA GTCTTCTCC
TGGCTGGGT GGACCGGGAG GCGCGAAGGA AAGCCT

SEQ ID NO:2279: (Length of Sequence = 193 Nucleotides)

TGCACCCATG GCCCCTCCA GAGCCCCAGG GCCCCTGAGC AAGCAGGGCT CTGGCAGCAG CCAGCCCATG GAGGTGCAGG
AAGGCTATGG CTTTGGG GGAGATGATC CCTACTCAAG TGCAGAGCCC CATGTGTCAG GTGTGAAACG GTCCCGCTCA
GGTGAGGGCG AGGTGA CCTTATGCGC AAG

SEQ ID NO:2280: (Length of Sequence = 401 Nucleotides)

GTGATTTTCC TGTCTCGTC TCCTGAGTAG CTGGGATTAC AGGTGCCAAC CACCAGGCC AGCTAATTTT TGTAGTTTAA
GTGGAGACGG TTTCGCCATG TTGGCCAGGC TGGTCTCGAA CTCTGACCT CAGGTGATCC ATTCCCCCTG GTCTCCCAAA
GTCTGGAAT TACAGGCATG ACCCATTTGG CCGGCCCCA CTGTTTCCTT TCTAATCGAG TGAGAAAATG GTCAGTATTT
CTGTCAACAA AATTCATGAG GCTCTTTGTA CGCACAGGAC TTCAGGCCTT TCTCTCAACA ATCGCCAAAG CTGGAGGCAT
CCACAATGGA GGNAACT GGGGGTTTTG AAAAAACAGG GAATGTTTCC AGAATNTTC TTCAAGAGTA TTACATTTT
T

SEQ ID NO:2281: (Length of Sequence = 217 Nucleotides)

AGCAGGGGA TTGTCCAAGG GTCTCCGGC GCCCAGGGCA GTGGTGGTGG CAGCAGAGT GCCACTATG CAGTCAACAG
CCAGTTCACTN ATGGGGGGC CCGCATCTC CATGGCGTGG CCCATGTCCA TCCCGACCA CACCATGCAC TACGGGAGCT
AGGGGCCCCN CCGCGNAAC TNACAGCACC AGGAAACCA ATENATGTCC CTGCCCC

SEQ ID NO:2282: (Length of Sequence = 302 Nucleotides)

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CCGATGGTGA AGTGGTAAGA GGTCGATGGC CTGGGAGTTC ACTTTATTAT GAAGTAGAAA TTCTGAGNCA CGACAGCACC
 TCCCAGNTTT AACTGTGAAA GTATAAGAT GGAACAGAGC TTGANITGAA AGAGAATGAT ATTAAGNCTT TAACTTCCTT
 TAGGCAAAGG AAAGGTGGCT CAACTTCCAG TTCCCTTCC AGACGCCGAG GGAGTCGATC AAGGTCACGC TCCCGATCCC
 CCGGTCGACC ACCTAAAGT GCCCGCCGAT CTGCTTCTGC TTTCCACCA GGGCGACATT AA

SEQ ID NO:2283: (Length of Sequence = 314 Nucleotides)

GAAAAAGTGG AAGTCATCAC CGGGGAGGAG GCGGAGAGCA ATGTGTTACA GATGCAGTGC AAGCTGTTTG TTTTIGACAA
 GACCTCACAG TCCTGGGTGG AGAGAGGCCG GGGGCTGCTC AGACTCAATG ACATGGCGTC CACCGATGAC GGCACACTAC
 AGTCCCGACT AGTGATGCGG ACCCAGGGGA GCCTGCGACT GATCCTCAAC ACCAAGCTGT GGGCCCAGAT GCAGATCGAC
 AAGGCCAGCG AGAAGGAGCA TTCGCATCAC AGCCATGGAC AACGAGGACC AGGGCGTGAA GGTCTTCCIG ATCT

SEQ ID NO:2284: (Length of Sequence = 262 Nucleotides)

GGCGTGACAC ACGCGCCCGG CCTGTGGAG CATTTTAAAA TCTGATTCCT TTCCCCCTGA AGTTTCCGTT CAACCCCTNN
 CTGTGGTCAG GTTGATTNCT TTAATTGCTA AAACAAGTCA AAATTCAATA TCCATGGCAG CTGACAATTC AGACTTTGGC
 ATATAAAGTA AAGGGTTTAT TTTTCCATTC CTCTGTAAAT GGTGTGTINT TCACFTATTT ATAGTGTAT GAAGCTGGTC
 ACCTGGGAGA ATGCATAAC TG

SEQ ID NO:2285: (Length of Sequence = 193 Nucleotides)

GTGAGACACA GTCTGCTCT GCTGCCAGG CTGGAGGGCA GTGTCTCGAT CTTGACTCAC TGCAGCTGAT GCCCCCTGGG
 TTCAAGCGNT TTTCCACCT CAGCCTCCAA GCAGCTGGGA TTACAAACAT GNACCACCAC GGCTGGGTAA TTTTGTGTGTC
 TTTAGTAGAG ACGGGGNTTT GCCANGTTGG CCA

SEQ ID NO:2287: (Length of Sequence = 342 Nucleotides)

AGGCTGGAGT GCACTGGCGC AATCTGGCT CGCTGCAAGA TCTGCCTCCC AGGTTCACAC CATTCTCCCG CCTCAGCCTC
 CCAAGTGGCT GGGACCACAG GCACCCACCA CGCTGGCTA ATTTTPTTTTG TATTTTPTAGT AGAGACGGGG TTTCACCATG
 TTAGCCAGGA TGGTCTCAAT CTCTGACCT TGIGATCCGC CCGCTCGGC CTCCCAAAGT GCTGGGATTA CAGGCGTGAN
 CACTTGCGCC CGGCCTTCAC CTGTAGTTT TTCAAGAGGT GTTCGTGATG TCCACTGTGA TAGTTATTTT GTGTGTCAAA
 CTGACTGGGC CACGGGGTGC CC

SEQ ID NO:2288: (Length of Sequence = 343 Nucleotides)

TTTTTATTGT AATGAAATTT TAAAAGGCAG TTACATTAGT TACACATATA CACAACCGAC TTAATAACTG TTAGTCATAG
 AGAACATTCA AGAAATACAA ATGATTTATC CACAGCACAG TTCACATCCA TAAGAAGAAA GAGAAATGGT TAAGTACTTA
 AACTGTCCAC TGACACCTGC TTATGAAATC TTTTCCTTTC TTTCTTTTTT TAAAGGAAAC TGAGATTGTT AGATGAAGCA
 AGCCGTCCTG CTCCCGCACA GCCTGTGAAA CCTCCATTTT GCCACTTTCA AGGTCAGTGC CCCACAGACC CTGGGCTGTT
 GTTGACCATA AACTAGCTT TGG

SEQ ID NO:2289: (Length of Sequence = 160 Nucleotides)

CGGCGCGCAA AGCTCAGCTC CTGGCGGTCC AGGCCCTGGT GGCTCTTGAT GATCAGGTCC ACGGCGGCTG CCACAGNTC
 CTCTAGGCCC TTCAGCGGCA NAGCGNCTCC AGCACCTGT TGTGCTCCAT GTCCGTNAAC TGCTGCACGA AGAAGCATAT

SEQ ID NO:2290: (Length of Sequence = 310 Nucleotides)

473

CCGACTCTAC TGAAAATACA AAATTAGCCG GCGGTGGTGA CGCATGCCTG TAATCCCAGC TACTCGGGAG GCTGAGGCAG
 GAGAATTGCT TGAACCCGGG AGGTGGAGGT TTGCAGTGAT CACACCACTG CACTCTAGCC TGGGTGACAA GAGCAAACT
 CTGTCTCAA AAAAATAAAA AAAAGNITAA ATGAGGTCAT GAGGGTGAGA CCTGATCCA AGCTCATAAG TGTCCTTAGA
 NGTGTCTTA GAAGTGTCT TAGGACACTT CTTTCTAAGT NTCCTAAGT GGGGAGCTTG CTCTCCCAA

SEQ ID NO:2291: (Length of Sequence = 270 Nucleotides)

CAAGACAGGG TCTCATTCTA TCTATTGCCC AGGCTGGAGT GCAGTGGTGC AATCTTGGCT CACTGCAGAC TCAACCTCCC
 AGGNTCAAGT GATGGAATTC CCNCAGTTTG TCTTTGACAT TAAGANGACA CCACATATAG ACGGCTGTTT GTCAGTGATT
 GCCCAGGNAT TCATGGATGC ATTINCTCTC ACAGAGCAGC AACTAGGGAA GGAAGCACCA ACTAATAAGC TTCTCTATGC
 CRAAGNTATC CCAACCTACA AAGAAGAAGT

SEQ ID NO:2292: (Length of Sequence = 332 Nucleotides)

CAGTGTCTT ATATTCTCCA CCTTCCCTTG GTTTCATTTC TCTTCGCTTC CTGAATGAGA AGTGCCCTGAG ATACCTTCAT
 TTCTCTGAA AGTATTGATC CAAGTTTAGA CAAATATCTC CCCTCTGTGTT GAGAGAATTC CTTATATGTG AAAATACCAA
 GACATTCTTG ATATTTAGCA GGCCTCAAA TATTGTCTC CTCCTTTTGA GCATAATTAA GCCAGACTGA TGTTTGCAAT
 TGAGTATCAT CAGCATGAGT AACCNITTTA ATCTCTCTTC CCTTAACCTAC TGTCTCTACA CTAGAGTCTA GGGTCAGGGT
 ACGTACAGTG AT

SEQ ID NO:2293: (Length of Sequence = 255 Nucleotides)

GCACCTGACT TAATGAGTIN TCAGGCTTCA ATGCCGTGINT TAGAGCTACT CCTTCACACA AAATAGTTCA GAACATAGAG
 AAGGACCAAG GTTAATAAAT GATTTINATC CCAAACTA AACATGATTG ATGGGTAGAG GCTGCCCGAA GTACTGTGTA
 AAGATGGAAT CTGAGATAGA AGRATGCTGT GGTCAATTAG TAATCTCTGC CCATGGAGGG ATTAGTGACA CATGCCCTGT
 ATATTTGTCA TCTGT

SEQ ID NO:2294: (Length of Sequence = 236 Nucleotides)

GGCTTCAGAA GCTATTGGAA GATCATATC AACTTACTAA TAATCAAGCA CTTTCATATT AAGACAATGT ATGATGTTTA
 GTAAAATTGA TTTTNCATA AAAGAAGTTT AAAATAAAT AGCTATTTCA AGAGNATCAT GGTGTGCAGC AAATAGAAAT
 GTGTGCTTA ACTCAAATCA CAGTAATATT CTGTGGTAGT CAATGATTT CTTTGAGCCN TTATCTTTTC ATCTGT

SEQ ID NO:2295: (Length of Sequence = 308 Nucleotides)

TTTTAATTTA ATCAGTAACT TTATTATAAC AAAACCTGTA TATTACCCAT TTAACTCAT GTGTAAACATT CAGTGATGTG
 AGCTGTATTA AACCAGGTA TTAGTGAAA TTTGCATTGT AAAACCTGGT AACAGTAGAC ATCTATGGGT GGTCAATTAAT
 TCAAGGACAC CTTTATTTT AAACAATTTT ATATAATTCA TATCAATATG CAAAATTACC ATAAAGATA CANGGATTAA
 TACATATTTA CATTTTTAGA AATAGTTACT CTGAGGTGA CAGCTGTAC TTTCTAAAT ATTACAG

SEQ ID NO:2296: (Length of Sequence = 279 Nucleotides)

ACCCCTCTG GAGGCTTTC CCCTCCCCAG GGCTTCCTC AGGGCTACGG TGCCCCGCCA CAGTTCAGTT TTGGCTACGG
 GCCTCCACCT CCACCGCCAG ATCAGTTTGC CCCTCCGGG GINTCCTCCT CCACCAGCCA CTCCCGGGG AGCACCTCTG
 GCTTTCAC CGCTCCGTC TCAGGCTGCC CCGACATGA GCAAGCCCC GANAGCTCAG CCAGANTTCC CCTATGGTCA
 GTATGCAGGT TACGGGCAGG ACTTGAGTGG CTTCGGACA

SEQ ID NO:2297: (Length of Sequence = 306 Nucleotides)

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CTGAGAAGAA AGAGTGTGTT GTAAAGGACA ATGACTTTGA GCCCAGAGCC CTGAAAGCTA ATGGAGAAGT TATCATTGAA
 ATTCCAACAA GAGCTTGTGA AGGACAAGAA AATGCTATCA AGTCCCTGGN GCATGTACAA TTNAAGCAA CAATTGAATA
 TTCCCGAAGA GGAGACCTTC ATGTCACACT TACTTCTGCT GCTGGAACTA GCACTGTGCT CTGGCTGAA AGAGAACGGG
 ATACATCTCC TAATGGCTTT AAGAATTGGG ACTTCATNGT CTGTTACAC ATGGGGGAGA GAACCC

SEQ ID NO:2298: (Length of Sequence = 307 Nucleotides)

AGTACACCTA GTATCTTAC AGTACTATT AAGTATTTT GAACTCAAAG TATATATTCA TCTTAAACTC CTGGAACAT
 GAACCTCCC ATGTAATTIN CTGATGAATG AAAAGGAAAA CTTCTTTCA AATAAGTGTG ATCTGTGCA AAAGTATGTG
 ATTTAAAAAC ACATGTAAAT ATAATCTTAG CTCTAATGTT TTCCTTTGGG AGTTTGGGAA AAAGCAGTTA CATTCTCTG
 TTGTCGTGTT TTTATCATTT GAAAATTGGA AGGATTCAAT CTGGATTGCT GAGCTGCATC AGTAGGG

SEQ ID NO:2299: (Length of Sequence = 289)

GTTTTAATG CATTTTTTTT AAAGATTAAA GTAAAATGTC TCAATTGTAA AAAATACACA CCGGGCAAAT CCTTACCTGG
 NTAATAAATA TCTACATCAC AGTACAATAA AATTNCTNCT CTATAAAATT TAAATATGGA TTATAGTCTA TCACTATCAA
 AAGAAACACT ATGCTAATAT TTCCATATTA TTAATAAATC AGGAAAAATT ACGNGCTTAT TTTAGAACCT GATGCCATAG
 CCGTTGGAAA GGGCAAAGAG ATTCAAATGT CGATCATCAC TCTCCATTT

SEQ ID NO:2300: (Length of Sequence = 371 Nucleotides)

CACCCATTGA AAAAGCAGCC GCCCTCCTTC CCAGGAGCTG CTGAAGAGAG AGCCTGCCAG AGCCTTGCCA GCAGGGACAG
 CCTCTTAGAT ACCAGCAGCG TCTCAGAACC CAACGTGTCC TTGTCTCNC ACTGTGCGGA CAGCAACAGT GGTGACATAG
 CTGTNATCGN GGAGGTCCGG ATGGAAAACC CAAAGGAGAG TAGCAGTTCC CTGAAGACTG GGAGGCACAG CTNAGGCCAA
 GACAAACCAC ACGNAACTTA CCGACTGCTG AAACGCAGGA NTCTGATCAT AGAAGCTGTC ACCAATCTTC GCTTAATCGA
 GAGTTTATTC ACGGTTTCTA AGATGATCAT GGATCAGGAG AAGCAGGAAG G

SEQ ID NO:2301: (Length of Sequence = 287 Nucleotides)

ACTTGGTGTG GGGATTGTT GTGAGGTTG CTGACACCTT GACCATTTT CACTGGCTGG AAATGAAAGG AACTTCCAC
 TTGCTCTTTG AAGGCAATTC CATTCTCTCC AGGGTCTTA TTCTCTCC ATATTCTCTC AACTTCCAA ACTTCTGAAG
 AAGGGAGCAA ACTTTGGCCA CGAGGAAGGA GTNGAGCTGC CTCTGTACTT GTCACTGCAC CTGCACTGGT TGAATCCACC
 TTCTCTGGT CAGCGCTG TGCTGGGTG TCACAGCTA GGACCC

SEQ ID NO:2302: (Length of Sequence = 358 Nucleotides)

GGAACACAGG ATCCAACTT GTGGGGGAA TCAGAGAGAA GATCATCGTT GGCGCGGTCC TTGGTGGGCC CAAGGATGAT
 GATGGGGCGA GCATAGTCA CTCCATCTG CGTCACTGTC TCGTAGCTCA GAACCGAGTC TTCTGACCC TGCGATCCAG
 AGCTGGAGCC CCAGTCTCTG GCCTTTAACC TTGACCACTC TCGTCTCTCA ACCCGCGTT TGCTGGGGAT GAACCAATG
 TCGTCTGCT CACTGTGAGA GTGGACCCG CGTGNCTGCC ACCACTCTC ATCACTAGCA TCGATGACAT GCAGCATN
 CCCAAGCGG AAGTTCAAG GCCTGGCTCA GGAAGCCG

SEQ ID NO:2303: (Length of Sequence = 403 Nucleotides)

GTCAGGGGCT CCAGATCATC CTCTCCAAG GGCCCGCAG GCGCTCTCTT GGCTCTGGC TCCTGCTTGC CGCTGGCCTC
 CAAGATGGTC ATGATGGAGT TAGGGATGTA AGCTTGTCTG TGGGGGTGA AGGAGCGGAC ATGGGCCAGC AGGGGCTCCC
 GGAGCTCTGG GCACTTNTCA AAGACGGCTC CCAGCTGCTG GGGCGGCANT GCAGGATGAC CTGGAAGCTC TGGGGCTTTG
 TCGCTGGCA GCACTTGATG AAGCCCTCCC ACACCTTGGG GTACTTCCAC AACTGCTTCA TGATGAGGCG GGACAGGATG

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TTCATGACGG AAGCCCCCA GGGGGGGTA CATGGTCANG GACCTGGATG ACGGTCCTCA TGAGCAACAT GGGCAAGGGG
GCT

SEQ ID NO:2304: (Length of Sequence = 376 Nucleotides)

ATCTTGCTAT GTTGCCAGG CTGGTCTTGA ACTCCTATTC TCAAGAGAGC CTCTGCCTC AGCCTTGTAAG AGCACTGGGA
TTATAGGCAT GAACCAAGC ACCCAGCCAA GATTGCCAAT TTGTATGATG AGACTGGAAG GACCCCAATG TTTCAGGATT
TTGCTACAAT ATACAAAAA CAATCTGTGA GACAGTGGCT GGGCTTTTTT CTGCGCTGAT TAGTTCAGTG CACATACAAC
TTGGACCAGA GGATCTGGGT TTGAATCCA TCCTGTATAC TTCCCAACT GAGCTGTITT CCTTATTGT AAAGACTAAG
ATCGCGTATG TCAAAGAGCT CTGTAACTC TCAACACATA CAAAGTACTA CTGCTG

SEQ ID NO:2305: (Length of Sequence = 354 Nucleotides)

CTGCCCAGCC TGCTCTGGC CCCCTGGAAG CCTCCCCACA GCTGGTAATC TGGACTTAAG GATTGCTGGG CCACCGCCTC
TCTGCTACC ACCATTCCAT ATTTAAGTGG AGCCCCACG TAGAAAGGCC CCGGGGCTTT ATTTTAGTCT CCTTTTCAGG
GATGTGTGG GCGGGGGAGG GGGTTCCTGG TGCTACAGCC CTCTCCCCAC CCTTAAAGGG ACGCCGACGC TGTITGCTGC
CTTCACCACA TATTAGTCT TGACCCGGC AGGGGACCC ATGGAAAAGA TGGGGAAGAG CAAATACAT GGAGACGAGC
CACCTTCAG GGATGCTGC TTGGGATTCC CAG

SEQ ID NO:2306: (Length of Sequence = 345 Nucleotides)

CCAAGATCCT AAGTAATCC AAATGCCTTA GATATCAATG AAAGCTACAC ACCATTGAGA TGGGCAAAAT TCTTTCTCTA
CAAAGGGAGT AATCAAGTAA ATACCTGTCC TCTTTCAATG GACTGTGCC TATTGAGCAT TGTTGATGAT GTGTTTTTCA
ATTTCCAGGT GAAGTCTGA CCTTACCTGT TTGGCCAAAG ACGTAAATG AGAGGAAAGG CCTTGGTCTT CTGATCAAC
CAGCATTTAA CGAACAGTGG CTTAATGCAG ATCACTCAAG AGGNAGCATA GCAATGTAAA AGGAATATAA GTAGGTGTG
GATGCTTTT TCCTAGACCA GGAAT

SEQ ID NO:2307: (Length of Sequence = 337 Nucleotides)

AACAGAATGT AAAATACGC AAGTCAAAC CTGGTAGAAC TGATGGAGA AACAAATGGA TTCAATATTA TNAGTCGGGA
AATCAACGC CCTCTATCG AAAATGGACA GATCCAGCAG GCAGAAAT AGTAAGGACA TGTGTAGCT CTGCAATACC
ATCAATCAAC TGGATATAAT GGACATCTAT AGACTACTTC AACAACAGCA GAAGATACAT TCTTCTCAAG CTCACATGGA
ACATTACAA AGATAGACCA CACGCAGGCC CATAAAGCAC ACCTTAAACA ATTTAAAATA ATATAAATCA TACAGTGTGC
TCTCAAACCC NCAGTGG

SEQ ID NO:2308: (Length of Sequence = 216 Nucleotides)

GAGGAGTAAA CINTTTTCTG AGAAGCATGC TTAGGTGTG GGACAGGAAG TGGTAAAGGC AATGCATCGT CCACAGAGGT
GGATGAAGCA GTNACAAAG AATGATAAT TNANTGCTG GTGGCATCTN CACTGCTGGA GTGTATGGCA GCAATCATCT
TACTCTCCAT CATCTGGTG GGGGCGAGT GTGCAGGAAA GCCACAGGGA TTGCA

SEQ ID NO:2309: (Length of Sequence = 289 Nucleotides)

GGGGCTATGA AAATACAAA AACATTAGCA CATTCATAGT ATGTATGTGT CTACAGGCAT TTNCCCAGCC CTATGAGAGT
NCTGCAATTT GAGAAGTACT AAAATGTATT GTTTGGTGAC AAGAACTGCA ATAAAAAGAT AAATGATTIN CTGAATGTG
TGCAAAGCA GTCTATTTCC ACTGCAATTT CTGCTACTAT TAGCTTAAAA ATTGCTGAGA CAAAGGACAA CCTTCTGATT
ATNCTGCTGA GATCTAATGC AAAGTCCTCT CAGANGCTTC ACTACACAT

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SEQ ID NO:2310: (Length of Sequence = 359 Nucleotides)

CTGNGGGCTG CCTCTCGTTG GTCAAATCCA ACCAAAAGCT AAGAGCTGGA GAGCTTGGGT GGTGCATCCA AGGAGGCTTG
 CTTCTGCGG CACAGAAGGG AGAGTGGAGA AGGATGGAAA GTGGCTCTAG GGGAGGAAAT GGAGAACATC CAGAACTTTA
 TGTCACTCT GGTGCTTGAA GGCTTTCTC CAGGGAGACA AAAAGTTTGT NTGGCTAAA GCTCCCTGGT TGCTCAGGAG
 CCAAGGGTCA CATAATGTGC CAATGGGGT TTTGCTCTT GAAAGCTCT GAGGTATAAT TACTTGCAAT GNNACATCC
 CTTTTCTCTC TCTCTCTG CCCACCTTCC ATGCCAAGG

SEQ ID NO:2311: (Length of Sequence = 324 Nucleotides)

GTGNGGGGCC GGCCTGGGCA ACATAGACAC CATCTCTTTA AACAAACAAA CATCATTAGT TTCTACATTC TACAAGGTGA
 AAGACTAATT AGAAGTGAAA AATACCACTG AATGTTGGT GTACAAATGG CAGCATAATT TGATTTACAC TAGATTTTAC
 ACATTTGTT CTATTTCAA TAGGTACTTT TACATTTTCC TTAACATCAT CTGACACAGA GTGAATCACA GATATATGTT
 GGTGTCGAAA GCAGAGGTTA CTATTATTAA NCGAAAATTT TTGTGGTTTT GCAGTCATCA TATCTAATGT GGTACAGAT
 TGTG

SEQ ID NO:2312: (Length of Sequence = 362 Nucleotides)

GNAGTTTATA AAGCTTTTATT AAACATTTCA AACAGCTGTG CAACGAACAC ACCAAATAAA AGCTCTAGAA TAGCAGTCCA
 GACGTTTAC AAGTATGGCC TCACAGTCCC ATTCCCTAGA TGGACTGCCT CCAGTCTGT NCTCTGCCTG GCCATCTCT
 CTTTCCCTC AGGCAAGAGA GAGATGGATG GNTCAGACTG AAAGGACAGG CATGCTGATC TCCAGCAGGC AGGGGCCAGG
 AGAAAGTCTC GTTGGCCAAC ACTTGTTACT GAAGCGCAGA AAAAGCAGCA AGTGACAGTC ACAAAGTCTT CTTGGGGTAT
 TCTTCATAAC GTACAGTCTA TATGCGCAGG AACGAGGAAG CT

SEQ ID NO:2313: (Length of Sequence = 449 Nucleotides)

TGTAATTTTT AAATTAAGAC TGCCTTAGTG AGAAAATTTC AGCAGGTGAG TTAAGGGCAC GAGGAAAGGG CCTTTGTGCA
 GAAGTAATGA CATAGGCAAA TTGTCAAAGG AGAGGTTCCC TGGTGTATTT NTAGAAGAAA GTAGACCCAT GTNTCTGAAC
 CCAGCACACA GTTCACTTAT GGTGGTTTGG AAATCTGCCC TGAATTTTNC ATGCATCTTT TAAATTTTGG GTTTATTTTT
 NCAAGAAATA AATGAAGTCT TTATTTTTTNC AATGAGGSCA ATGTTTATTA AGAACAGCAC ATAAGGTAGA AAAGAAGGTT
 GGTTTCTAAT CTGGTTTCAT CTCCCCACT GATCTTGAGT TTTAAAAGCA TAGAGAGCAC GATCCTTCTG TGGGGTCTCC
 ACTGTCAGAG AGCCTGTNCA GATGAGCAGT CACACTGTTA CTCCACAGC

SEQ ID NO:2314: (Length of Sequence = 316 Nucleotides)

CGAGGCAAAC ACAAGGGCT CCTCTGCTT CTCTGACCCC ACCTGCAGCA GGTAGTGGAT AACAGCCCTT ATGGCTCTCT
 TCATGACGCT CACGAGCTGC ACCTTCTGTG GCTCCTTAAG CAGTGACTGC TCACAGCGAG TGCATTCTTG GNTCCCAAC
 TCCATGAGGG CATAGCAGGC GGTCAACACA TCTCTTTCA CTTCCGTGCC CGTNTCTTCC AGTGCCAGCC GCACITCCAC
 GNACGNCAGA TTCACCAGCA GGGCCAGGAA CTGCTCCCG GAGCTGCCCG CCGGGATCCA GTCCGAGCCG CAGGTG

SEQ ID NO:2315: (Length of Sequence = 286 Nucleotides)

ATTTTTATGT GTAGACAGGC TGTGGGTTCC CTCACITAA ATTGAAGCTC TGTGAACTT GAGACACITTA AGANTCTTGC
 AAGTNTGAAA AGTGGAGTGA AACAAAACCA TTCTAAAC GAAATGTGT AACTNNTTC AGTTTTACAC AGTGNAGAAA
 TAAGTATTAA ACAAGTTAGT CTCAAACGGT TATATCTTAA GGTACATTTA TTCTGTAT CATTAAGTAG ACATATCTTG
 GTTTAGAGAG CAGCACACAA GACATTGTGT ACTNTTTAAT AGCTAA

SEQ ID NO:2316: (Length of Sequence = 414 Nucleotides)

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AATCATAGCT TACTGTGGCC TCGATGTCT GAGCTCAGGC GATCCTCTCC TTATAGCCTC CAGAGTAGCT GGGACTATAG
 GTGGGTGCCA CCACACCTG CTAATTINAT GTTTTGAAGA GACGGGTCT CACTTGTGTG CCCAGGCTGG TGTGAGACTC
 CTGGGCTCAA GCTAAATCAC CCACCTTGGC TTCCCAAAGT GTGGGGATTA CAGGTGTGAG CCACTGCGCC CAGCTCTGAT
 TTTTGTATTT CTTACTTAAG GCGACATACT TAGTAGCTGT GCGTCTTGGG GCAGATACCT CCCAAAGCCC CAGTTCGTGC
 ATCTATAAAT AATGTAACAA CAGGGCCCCG CTCGCAGGT TGTGTGTGC ACATATGTGT GTGTACGTAC CCATGTGCTT
 NTACGAGAAG GGCT

SEQ ID NO:2317: (Length of Sequence = 166 Nucleotides)

GCAGTACTA TTATTAACAT TACAGTACCA AGCATCCCA AGAGACAGTC ATTGTINATT TTINATCAAG AAATAGGGCT
 GTTTTATACT GTTATGACA TCAACTTTT CCCAGTGCAT TTTTCAAAA TATTAATAAG TTCATTCCIT TGTGCTTTTA
 ACTTCC

SEQ ID NO:2318: (Length of Sequence = 374 Nucleotides)

TTTATTTTAC ACTTACAAA GAAATGCCC ACCCCTTTC CCCATTCCCC CAAAACAGTC TCTTTTACA AACATTTAA
 AATTAAAACC AAATGAAGAT AGACAAGTTA ATTTTCAATC AATTATTTIN CAGTGTAGCT GTCATAATTA GAGTTTAAAT
 TTCTTACAAG TGACCAATGT CCAAGTACT TATAGGGAAA TCTGATTAT CGGCCAAAGG AAATTCATA TTACAAGTTA
 GCAATTCTT AGTACAAAA TAGTCCGTGT GTTGGAAAT CTTTTCCTTG TTACATAGGT CTTAGGTACG TCTGCTGNA
 ATACCTTAAC GNTTCCGGAT TCINNICTCA CAAATG AATCGTCACT GCTG

SEQ ID NO:2319: (Length of Sequence = 380 Nucleotides)

CATCTTAGTT CATGGTAATC TCCTTGGCAG CACTTATGT CTTGTGTGA GAGCAAATGA TAGAGTCATC CATTCAAGTT
 AATTAAAGAC ATCTGCATG CAAAACIGGT CACTAAATG CTCGCCAAT TTGAGGCTTT TTCTCTGCA ACACAAATTA
 ATTTTAAAG TAGCAGCATT TTCAGGAG ACCAAATAA GAAAGCAACA ATAAAGTTGC CTGTCTAGTG AGATGTCCCC
 AAATATCAA CTTTAAACAT ACCTTGCCT TTNATAGTAG TTCTTCACAC AAATGCCTT AATCAAAATG CGTGTCTCTT
 GCTGTGTCAT TTTATGTTTT GGCTCTTAG CAACCTAAT GTATGGTAG ACAGATTCCT

SEQ ID NO:2320: (Length of Sequence = 348 Nucleotides)

GGAGTTCTCT TGTCCACGGA GAGCAGTGT GAGTGTATG GAATGCTAAA TCTTACCCA AAGGGCAAGC AGGCTCCAGG
 TGGCCATGAG CTGAGTGTG ACTTCTGGGA ACTAATGGG TTGGCCCTG CTGGAGGAGC TGACAACCTG ATCAATGAGG
 AGTCTGACGT TGATGTCCAG CTCACAACA GACACATGAT GATCCNAGGA GAAACATGT CCAAATCCT AAAAGCAGA
 TCCATGGTCA CCAGGTGCTT TAGAGATCAC TTCTTTNATA GGGGGTACT ATGAAGTAC TTCTCCAAC ATTAGTGCAA
 ACACAAAGTA NGAAGSTGGT GCCACACT

SEQ ID NO:2321: (Length of Sequence = 330 Nucleotides)

ATCTAGACTT TNAGTTCCT GCATCTGCCA CGTAGTTTC TAGCAGGAGT AGTGGGGGA GTAATACAGA TTCTNCCCTA
 GAAGGGGACA CTGGTAACAT GTCCACTCT TGGATTAGCA GGGGTGGTTC CAGGAAGATG ATATTNNT CTTTGGCCA
 CCCCCCTGAC ATTGAGCTGG ACCCAACTAG GCCATCATGA GTGGCTTCTC CCGTTCATCC CCAGGGGTCA TAGGATATCT
 ACACCGCCTT TNAGACCCA CCTGCACTC CCATCCTTC CTCTCTCCC GGTTCAATGCC CTGCACTACA TAGCACAGCC
 GGGATGCTTN

SEQ ID NO:2322: (Length of Sequence = 352 Nucleotides)

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TTGACAAGTA AGTGTATATA TTTAAGGTGT ACAATGTGAT GCTTTGATAC ATACAGTGTG AAATGATTAC CACAGTTAGG
 TTTAATAATT AACATATCCA TCATCTCACA TAGGTATGAT TTCTTATGTG TGTGGCGAGA ATCTTGAAAA TCAACTCTGA
 GCACATTTCA AGTGTACAAT ACAGTATTTA TGATAGTCAC CATGCTGTTA ATCAGATTGC CTACCTTGGT TAAAGTGCAG
 ACTCAGGTGA AGGTCTGGAT GGAGGATCAT ACTTTAATTG ATTTAGACTC TAAAATAAAT GTATATAGTT ATTTTGTCTA
 ACCTAANGAA CCTACTCATA AATGGGCTAG TG

SEQ ID NO:2323: (Length of Sequence = 316 Nucleotides)

GAGACAGAGT CTCTCTCTGT CGCCCGGGCT GGAGTGCAGT GGCACAATC AGCTCACTGC AACCTCCGCC TCCCAGATGT
 CCAAGTGATC AAGGGGTTTC ATTTGCTCTT GGGGGATTAG GTATCATTTG GGGAGGAAGC ATGTGTTCTG TGAGGTGTGT
 CGCTATGTC CAAGTGTCTT TTAATAATAG TGGAGACGGG GTTTCACCAT GTTGGCCAGG CAGGACCTCA GGTGATCTGC
 CCACCTCAGC CTCCCGAAGT GCTGGGATTA CAGGCATGAG TCACCACACC CGGCTTCATT TATTTCTTA TCCATG

SEQ ID NO:2324: (Length of Sequence = 300 Nucleotides)

GGGACAGGA GGTGACCTCG CGAGCAGACG CGCGNCCAN ACAAGCAAGC CCGCCCCGGC CTCTCGGGAG CCGTGGGGCA
 GAGGCTCGG ANCCAGGAG GGCCGGAGCC CTCAATGAT CANINACCTG CTCTCCCCC TTTAGGTCTA TCAGCCACAG
 TTTCTGCAAG TTTCCAAGAG CAGCAGAAA TGAACACATT NCAGGGGCCA GTTTCATTCA AAGATGTGGC TGTGGATTTC
 ACCCAGNGG AGTGGCAGCA ACTGGACCCT GATGAGAAGA TAGCATACGG GGATGTGATG

SEQ ID NO:2325: (Length of Sequence = 303 Nucleotides)

CTGTCTCAAA TAATAATGAT AATATTTNCT TATGCTTACT TTACTGTAAG ATTACAGTAT ACATTACAAC ATATGCGTTT
 ATTGACTGTT TATGTTATTG ATAAGGCTTC TAGTCAACAG TAGGTACTA GTAATTAAGT TTTTGAGGAG TCAAAAGTTA
 TGTTGGATT TCAACTGTG GACTTTGGTG CCTCTAACCC TGTGTTGTTT AGGGGTCAAC TGTGTATTCT TTCTGTGGNA
 ACATTTTATG ATGTTATAGC CTTTAGACAT TAGAAATGGA AATTTAGTTG AACTCGNGTG TTC

SEQ ID NO:2326: (Length of Sequence = 348 Nucleotides)

GTGTTCTCG TGTGGCACAT GACACAATCT CTCCGTCCT TGGAGGCCAG CTCCCCGTG GCCAACCTCA GGCCTCCAT
 GGCATCTCAG GGCTCCTCCA GCCAGACTGG CGCATCCAA TTAACCTGAT GGTGGCTGAG CAGCTCAGCT CTGTGCCAGC
 CCTGCAGGA GGCAGATCAT GTTGTCCAGG CCCAGAGGT AGCCGTCTC ACGGTGTCN TCAGCCAGG GCAGCCTGTG
 GCTGAGCGTC TGGTGGTCG GCAAGGCCAC CGTCTTCCG AAGTCTATCA TCCAGACCTT GGCCAGGCCG GTGTGGTCTG
 GCACGAAGAG GAGGGAGCTT CCTACCAC

SEQ ID NO:2327: (Length of Sequence = 392 Nucleotides)

AGCTGTTTTT TCCTAGCTGC CAAGACTGTT GAGGAAGATG AGAGAATTCC AGTACTAAAG GTATTGGCAA GAGACAGTTT
 CTGTGGATGT TCCTCATCTG AAATTTTGAG AATGGAGAGA ATTATTCTGG ATAAGTTGAA TTGGGATCTT CACACAGCCA
 CACCATGGA TTTCTTCAT ATTTTCCATG CCATTGCAGT GTCAACTAGG CCTCAGTTAC TTTTCAGTTT GCCCAAATTG
 AGCCCATCTC AACATTTGGC AGTCCTTACC ANGCAACTAC TTCACTGTAT GGCCTGCAAC CAACTTCTGC AATTGAGAG
 ATCCATGCTT GCTCTGGCCA TGGTAGTCT GGAAATGGAG GAAACTCATT CCTGATTGGC TTTCTCTTAC AA

SEQ ID NO:2328: (Length of Sequence = 256 Nucleotides)

ACGAGCACAC TCTTCACAGT GGGCGGAAC ATCAGAAAAT GGGAGCCTTC TTCTAATGGC TGTNCTTTTC TGTGGGAAA
 AAAAAAAG AAATCCTCCA AACCACACCG GATGGTTGTA AAAAGCTGCA ACGGAACCTT TGGCACCNGA TGAGAAGAGA

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GGCCTTTTAA TGCCATAGCT AGTGATGATT CANTCAAAGC ATCAGTCTAA GGAAGGATGA TGGGGGAAGG GACCNVAGAT
CACAGNCCIT CTCCTT

SEQ ID NO:2329: (Length of Sequence = 383 Nucleotides)

AGTAGAGACA GCATTTCATT ATGTGGCCA GGCTGGTCTC GAACTCCTCA CCTCAAGTGA TCTGCCTGCC TOGGCCTCCC
AAAGTGGGG GATTACAGGC GTGAGCACNC ATGCCTGGCC TTTTTTTTTT TTTTTTTTAA CGAAGTTATT TTTCTAGAGC
ATTCATAGTT TGTTTTTATA CAGTTAAGGT TCTCATCCAT CTGGATTTTT TGGTAAGTGT GGGGAGAATA AAATGAGGAG
CCNCTGTTTT TTTCTCCAAA TGGCATGTAT TGTCCCAACA CAATTTATTG AATCAATAAT TCATCTCTCC CATACGAATT
TAACTATTG AACITTCACA TCAAAATTTT GGAACIACAA AGTAGGTITA ACAAGGTGAG AAC

SEQ ID NO:2330: (Length of Sequence = 392 Nucleotides)

CGAAACGNYC TCAACCTATT CTCAAACITT AAATGGGTAA GAAGCCCACT GGTCAGCATG GCAAAGCCCC AGCTCTAATA
AAAAATGCAA AAAATTGGCT GGGAGTGGAG GCGGGCGCCT GTAATCCAG CTACTTGGAA GGTGAGCTG GGAGAGTTGC
TTGAGTCTGG GAGGCAGAGG TTGCACTGAG CCGAGATCAC ACCACTGCAC TCCACCTTGA GCAACAGACT GAGACTCTGT
CTCAAAAAA AAAAAAANT TATGCAAAGT GTCTTTTCCA ACAAAGTGT AATGAAGCTA GAAGTCAATA ACAGGAAAAC
CTGGGNGAAT TTCAAGTAA GTGAAAGTTA AACACATTC TTAACCAGTG GCTCAAAGGA GGAAATGACT GG

SEQ ID NO:2331: (Length of Sequence = 284 Nucleotides)

AAGAAAAGTA AATTCATCTT GCTCACAGTC CTTCTTGAA GAGTTTAGAA AGCAAAGAAT TCACCGACTC AGCAGGAAGC
AGAAGAGCT GTTCTTCTT TTGACAAGCA CAAGCTAATC CCCTAGAGAG TGGGGATGTG GGAAACGGAG GGTAAITTAAT
TCTTTGGTCA CTGGTTCACT GCTGAATAGC CTGGTCACT TTTGGCTCTC TCTTATTTTA GGGGAAAAA TATTTTNGTT
TCTTTTTTTT AAAAAATAAA ATGTTGCGAC AATGGGAGAA AATT

SEQ ID NO:2332: (Length of Sequence = 349 Nucleotides)

ATCTTAAAA GATTTTTTGT ATTTCITTT GAGACTGGGT CTCAGTCTGT TGCCAGGCT GGAGTGTAGC AGCCTGATCA
TGGCTCAGTG CAGCCTCTAC CTCCCGGGC TCAGGTGATC CTCCCCCTC AGCCTCTGA GTAGCTGGGA CTACAGAGGT
GTGGCACCAT GCCCGGCTAA TTTTGTATT TTTTGTGGAG ATGGGGTTTT GCCATGTTC CCAGGCTAGT CTTGAACCTC
TGGATGTGAG CCACTGCGTC TGGCCTATTA TTTTAAATAT AGTTCTCTTT ACTGCCAGTA GCTTTCATAT AACCTAGCG
ACTAGATTTA GTCAACACTG CTTAATTCC

SEQ ID NO:2333: (Length of Sequence = 353 Nucleotides)

CCACCTCTCC GTTCTCTGCT TCINAACCAC AGCCGCATCC TATTTGCAGC CCTCAAGATT AAGGATGAAA ATTTGACTTT
TTAATTTTAT TATTCITGTT CTTCCTTCT ACTTCATTAG AATCATGTTA TTGGCTTAA ATACTGTATG TAAAGGATGC
TCTGGGGCCC ATCTGGAAGC CTGCATTCTC TGGGATATA ATTACGCTAA GCAATTTTTT ACCAGGGACA GCATGACTTA
GCTTCTACCT GGGCATCTC TGSCAACACA GCCTCAGT CTTCCAAAGG GATTGGCTGC TGTCCCTTCA GGCCTTCTTC
TTNGTGTGT GTGTGTGTGT GTGTGTGTG TTC

SEQ ID NO:2334: (Length of Sequence = 279 Nucleotides)

GCGCTTCTA CNAGCTGCTG CTGCGCNCI CATNCTGGTG GCGATGCTGC AGCTGCTCTA CTTGTGCTG CTGTCCGGAC
TGACGGGCA GGAGGAGCAA GACCAATATT TTAAGTTCTT TCCCGCTCC CCACGGTCCG TGGACCAGGT CAAGGCGCAG
TCCGNACCG GCTGGCTCTT GGAGGCGTCC TNGACGCTAG CGGCGATTAC CGCTCTACA GGGGCTGCT GAAGACCACC
ATNGACCCCA ACNATGTGAT CTTGGCCAG NAGCCAGC

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SEQ ID NO:2335: (Length of Sequence = 386 Nucleotides)

GCCTTTTGT CATGGTAGCA AAGTGGCTGC TGTGGCTCCA GGCATCACAC CCTCAATCAA GGTAGGAAGA AGAGGCCAG
 GGAGGTGTTA GCCATGCCTG TTTCTTTTAT TGGAAAAGCT TTCCAGAAG CCCAGGTAGA CTTCCTCTTC AATTTCATTG
 GCCACACCTG ATCACATAGC CATCTAAGC TGCAAAGGAG ACTGGAACAG TGAAAATCTG GATTTCACAG CTCCACAGTT
 GGAGTGGCTG GAGATACAGA GTTGGGACGA CCCCTGAAAA GTGAACCAAG GTCGTCTGCA CGGCTGCCCT GGAGGGCGTG
 GTGCTTGAGG TCCCTTCTAC CTCTGGGGCT TCATGGAATG ACTTGTGTC TCCATGGAGC ACCTCT

SEQ ID NO:2336: (Length of Sequence = 258 Nucleotides)

CCCTAGCAAA CCACTGATGA CCGCTGGNA GGGGCCAGCC TGTGGTGTCT CTGGGCCTTG CAGCTNTTTC TTTAGGGTTA
 GCGGTGGTGC CCGGGTCACT TTTGAATCT TTTTTTTTTT TTTTCAAAAA GGAAAGTTTT TAATGGAAAG TTGAGCCAGA
 ACTAAACCAG GGAGCTGTCT GAAATCATAG CACCCCATCC GGTGGCGGG GAGATCAACT CCGAGCTGTT TTTCCGAGGC
 AGTGAGGAAC GTGCCCG

SEQ ID NO:2337: (Length of Sequence = 338 Nucleotides)

ATCTCTTTTC CCACTTCATA AAAGCAAAAT ATGTAAGACT AGCATCTGGT TTTGTCCCA ATAAAAAAT CCCACAACCT
 TCAAGATATC ACTCTAGCTT TCTAAAGTAG AAAGGCAATT CAGGCAACAA AAAATATTTT TAAAAATCT ATAGCCCAAA
 TCACCAAAAG GTAAGGAAAG AACTTTCCTA GCAAGCTCTG GAGAAGACCT AATTGNGCA TCAAAATGGA GCTTTCAGAC
 ACTAATCAAG GCCATTAATT AAAAAAATTT TTTGAGGAAA ATAAGGCAGG TTGGATCTCT TTTCCACTT CATAAAGCA
 AAATATGTGG CAGACTCT

SEQ ID NO:2338: (Length of Sequence = 410 Nucleotides)

GGGTCTTGCT ATGCTGCTA GGCTGGTCTT GAACTCTTCA ACTGCAGTCT TGACCTCCCA GGCTCAAGTG ATCTTCTTAC
 ATAGGCCTCC CAATGTGCCA GGATTATAGG CATGACCACC ATGCCAAGCT CCAGATGGTA TTTCTAATTC AGCTACAAT
 GTGCCCTCAT CAGATTGCTA GTGGCCAGGA GTGAACAACT GAGTGACTTT AAGAATCAGG ACACCAGGAA TATGTTCTTA
 GAAAGTGAAG GTATGAGTGG AAAACCTGGG TTGGATTATG AACAAAGGCC ACATGTGTGC CAGAGTGGCC AGGGCAGGGA
 GCAGCAGCAG GTGCTGGTGA AAGGAAGGTG GATTACTGGG GGCAATGCCT GTCTTGTGT TATGGGTTTC TTTTGAGGGA
 AGTAGATAAG

SEQ ID NO:2339: (Length of Sequence = 336 Nucleotides)

AGGGGAGGAG GGGGCTAAGG GCGGCTGGAG GAAGAGCGAA ANAGATGGAA GCCTTCCGGC AGAAGGCAGA GCTGGGGCGT
 TTNTTGAGAC ATCAGTATAA CGCTCAACTC AGCAGACGCA CACAGCAGAT CCAAGAGGAG CTGGAGGCAG ACAGGCGGNT
 CCTGCAGGCC CTCTCGAGA AGGAGGACGA GAGCCAGCGC CTCCACCTGG CCAGGCGGGA GCAGGTCATG GCCGATNTGG
 CCTGNTGAA GCAGGCCATT NAGGNGCAGC TTCAGCTGGA GCGGGCGCGG GAGGCAGAGC TGCAGATGCT TCTTGAGGGA
 GGAGGGCCAA GGAGAT

SEQ ID NO:2340: (Length of Sequence = 290 Nucleotides)

TTTGTAGTAG GATGGGGTT TCTCCTTGT GTCAGGCTG GTCTCGAACT CCCGACCTCA GTTGATCCAC CTGCCTCGGC
 CTCCCAAAGT GTTGGGATTA CAGGCGTGAG CACNCGGNC CGGCCTTCAG TTTCTTCTTA GGCGTCTG TCACCCAAAT
 AGCTGCTACC CAGAGNGCG GGGTTGACCT AGGCTGAATA TCCACTTTGT TTTTATGGAT GGCNCTTC CCCCATGNC
 CTTTNCAGA ATATCCTTC AAGTINCANT TTCCAGGGG AGCTCTTGGG

SEQ ID NO:2341: (Length of Sequence = 298 Nucleotides)

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TTTTCCTTAT TACCCGATTT ATTAGAGAGA TCTCTAAAAA GACGGGGTGT GGCGGGGGTA GGTGGGCGAG GAACCTGGGA
 TGCAAACCAG TGTTTGGGGC CAGGAGTGGC TGTATGGTTT CANAGGCGCC CACCACTCTG GGTITGAGGG ACACAGCACC
 CTGCTCTGG CGCTTTGGAT TATCAGCAC CAGACCACGG GCGGGAGGAA TGGAGTGGCA TCCCTGGGGG GAGTTAAGAC
 ACACGAGGTT TGCAGTTTCA TTTTGTITCA GAATCAGTTT GGCCATAAAA ATGGGACT

SEQ ID NO:2342: (Length of Sequence = 316 Nucleotides)

CCTGAACAAG GTCGTGGTGG TGTGGAATTC TOCCAAGCTG CCATCAGAGG ACCTTCCTGT GCTGACATT GGCGTCCCCA
 TCATGGTGGT CCGTACTGAG AAGAACAGTT TNAACAACCG ATTCTTACCC TGAATGAAA TTGAGACAGA GGCCATCCTG
 TCCATGATG ACGATGCTCA CCTCCGCCAT GAGCAATCA TGTITGGGTT CCGGGTGTGG AGAGAAGCTC GGGACCCAT
 CGTGGGCTTC CCTGNCGT ACCACGCATG GGACATCCCC CATCAGTCTT GGTCTACAA CTCCAACCTAC TCCTGT

SEQ ID NO:2343: (Length of Sequence = 380 Nucleotides)

GGAAGAGGAG GAAGGTTGGA CCTTCATCAG ACCACTCCCT TCCCCATCC TCCAGGAGAG GGGCAAGGG CAACCCACCA
 TCTACCCACT TACTAACCTG GTCCTAACCC CCTTACTGTG CGGTGTGTGT TCGTGTGTG CACGCTCTGG CTGTTTGTCT
 ATATGTCTAG CTCTCTAGT TCCTCTTCTT AAGGGGATGG GGGTCAGGG CTAGGGGAGG GGGCTGAGTT TCCCCACTTT
 AGGAGGAGGT GGGGCTATT TCTATGCAAA TAGAAATCAG CACATTCCTC CTACTTCCT TTCTCCACT CCCCCATAT
 CTTTAAAGTG TGAAGCAGA AAAGGACCTG CATTTTCTCT ACAATTGAGG AGCTGACATA

SEQ ID NO:2344: (Length of Sequence = 282 Nucleotides)

GGGAATATAT TTATGCAAT TTTATGAAA TTTATTGTAA ATAAAGNTTT TNCAGTGGN CTAGAAAANC AGCTTGAATG
 NCATTCAGCA TTTATTGAAG AAGGATGACA TCCCTNCCAC TTATTGCACA AACTTGGTAG CTTTGAGACA AATACAGTAG
 CACAGTCCGT TTGAAGATT GTCCAAAAA TTAGTCCATA TTTTAGTGGC TCAGTGTCAA GAGTTCCCTC CTTGTGCCCC
 CACTGTGCT TCTGCAGTA TACGAAGGAT GAATGCTTAA TT

SEQ ID NO:2345: (Length of Sequence = 256 Nucleotides)

CTTTATAGGA AGCTGCAAAA GAAATGAGCA GAGCGNGATA TTTGTGGTAA GGGATACAAA GAACATACAA TTGTGTACTT
 GAGAGGTTTC ATGGAACATT ATGACCCATC CAATGNAGAC ATCAACATTA ACAACAAAAA TTANTTGAGG AAGAGCAGTA
 TGAATAATAT CTATGCAGT GCTGTCCAAC AGAACITTTCT GTGGTGTAGG AAATGTCCA TATCTTTGTG CTAATACAGA
 ATCTACCAGC CACATG

SEQ ID NO:2346: (Length of Sequence = 437 Nucleotides)

GTGGAGATTG ATGCTTCINT TTTTGTGTG CGCTGCTGCC CTCGCGCTGG GAGCGAGCC GGAGGGAAGG CGGTGGAGAG
 ATGATTGCAG AGTTGGTGAG CAGCGCTCTG GGGCTCGCCT TGTATCTCAA CACCTGAGT GCGGATTTCT GCTATGATGA
 CAGCGTGCT ATCAAGACTA ATCAGGACCT TCTCCAGAA ACTCCATGGA CGCACATTTT CTACAATNAT TTTTGGGGGA
 CTCCTCTAAC CCACAGTGGC AGCCACAAGT CCTACCGGCC ACTCTGCACT CTTCTTTTC GCTGAACCA TGCCATTGGA
 GGGTTGAATC CTTGGGAGCT ACCATCTTGT CAATGTCTG TTGCAATGCA GCAGTCACTG GTCTCTTAC AAAGCTTCIN
 CAAGATCCTC CTTGGTGAT TGGATACTGG ACATCA

SEQ ID NO:2347: (Length of Sequence = 406 Nucleotides)

CCCGCGCCG GCTTCCGCC GGGGCGAGAC CCCCAGGTT AAAATGAGCC TGTITGGAAC AACCTCAGGT TTTGGAACCA
 GTGGGACCAG CATGTTTGGC AGTGCAACTA CAGACAATCA CAATCCCATG AAGGATATTG AAGTAACATC ATCTCCTGAT
 GATAGCATTG GTGTCTGTG TTTTAGCCCA CCAACCTTGC CCGGGAACTT TCTTATGCA GGATCATGG CTAATGATG

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TCGCTGCTGG GAAGTTC AAG ACAGTGGACA GACCATTCCA AAAGCCCAGC AGATGCACAC TGGGCCTGTG CTTGATGTCT
GCTGGAGTTA CGATGGGAGC AAAGTGT TTA CGGCATCGTG TGATAAAACT GCCAAAATGT GGGGACCTCA GCAGTAACCA
AGCGAT

SEQ ID NO:2348: (Length of Sequence = 363 Nucleotides)

GGCCTTTCAA GNAGCGGCGG ANTCGCCGA CCGCTGTAAG GAGGTACAGC AGATCCGCGA CCAGCACCCC AGCAAAATCC
CGGTGATCAT CGAGCGCTAC AAGGGTGAGA AGCAGCTGCC CGTCTGGAC AAGACCAAGT TTTTGGTCCC GGACCATGTC
AACATGAGCN AGTTGGTCAA GATCATCCGG CGCGTCTGC AGCTGAACCC CACGCAGGCC TTCTTCTGC TGGTGAACCA
GCACAGCATG GTGAGTININT CCACGCCCAT CGCGACATC TACGAGCAGG AGAAAGACGA GGAGCGCTTC CTCTATATGG
TCTACGGCTC CCAGGAAACC TTCGGCTTTC TGAGNCAGCA GTA

SEQ ID NO:2349: (Length of Sequence = 332 Nucleotides)

TCCTCCTACT GATGTCTTC AGTAGATTCA GAAGTGATTG TGGCAAACAT AGTATCTTGA AGGAAGAGAT CGTGT TTTGA
TTAGCATCTC CCGAGCCTAG TTTTGTGTTT ATGTTTCATGG TATTGAGGAA ATAAAGATCA ATTGGACTT CTTCACCTG
TTAATACATC CTAGTTCCTG ACTGCAGCAA AATGACTCTC AGTGCCCCCTT TCTCTCTTA GTGATTGCCT AAGATGACAG
CTTCATTCCC TTTTAATTAT TATCCACCTT CTTCCTCATC TTCANTTGT TTTCAAGTG AGGGACTTGG CCTCTACTGG
GACTCCACTG GG

SEQ ID NO:2350: (Length of Sequence = 339 Nucleotides)

GAGATGGAGT CTCACCCCTT CGCCCAGGCT GGAGTGCAAT GGCACGATCT CAGCTCACTG CAACCTCTTC CTCACAGGTT
CAAGCAATTC TCCTGCCTCA GCCTCCCGAG TAGCTGAGAC TACAGGCGTG TGCCACCATG ACCGGCCAAT TTTTGTACT
TTTAGTAGAG ACAGGGTTTC ACCATGTTGG CCAGGCTCGC CCGAACTCC CGACCTCATG ATCCACCTGN CTCGGCCTCC
CAAAGTGCCG GGACCACAGG CATGAGNCAC CGCACCCAGA AAAAGCAAAT CTCTTAGTAT TTTTCTCTT GTCCAAAGG
TTCTGACCAT GTTCATGAC

SEQ ID NO:2351: (Length of Sequence = 354 Nucleotides)

AGAAGGACCT GAGTTGTGGC CAACAACAGG CTGCAGAAAG GCAATGCCAT CCTGAAGATT TCTCAACTAA GAGTCTGCAC
CCATGACAGC CCACCGAGAC CCTCGCTCCA AGTTGTGGA GAAAGGGAAC CCGTTTGCA GCATGTGGAA AGACCCACG
ATGAGCAGCA GACACAGCAA CGCTGCCTCC TACATCTCGA CAGCATCTGT GTAAGACTCG CTAGCATCTG GTGCACACAC
TGTATGAGAC AGCAACAGCC AGAACAGACA GCTTTACGTT GATGAACACA CAGACGGTGG CGCATGTTCA GAGATGCCGA
GGGAGCGCG CAGTTCCCAA AATCACCTCT GGCC

SEQ ID NO:2352: (Length of Sequence = 378 Nucleotides)

GTGTGTGTGTT TAGTGAACA CTCAAATCAA AAACAGGCTC ACGTCTGAA TAGTCTTCTG GTCTAAGCAA CTCAGCACCA
GCGCCGCCAA GGGGAGGCCG CCTTGTCTT GGGCCCGGGA AGAGACGCAG CTCCAGCCCC GACGCAGACC CCATGGCGCA
CACAGGCAGG CAGAGCTCGA GGTNCAGGCG GCTGCCTTGC GGGAGTCCG TGGGGGAGGG TCCCTNGCTG AGGCTGCACC
AAGGGCTNGG GAGAGGCCCA GGAAGGGGAG AGCGAGCTGN GAGCTTGGGA TGGGAGCCGT GAGGTGGGA TGGTTNGCA
GAGGGGCAGA GCCAAGGNCA GAGGCAAGTT CTNGGGCCCC ACAAGCTTAT GGTGCGCA

SEQ ID NO:2353: (Length of Sequence = 369 Nucleotides)

CTGCCTTATA TAATGTGGAT GCTGGGCACA GAGCTGTCAT CTTTGACCGA TTCCGTGGAG TGCAGGACAT TGTGGTAGGG
GAAGGGACTC ATTTTCTCAT CCCGTGGGTA CAGAAACCAA TTATCTTTGA CTGCCGTTCT CGACCACGTA ATGTGCCAGT

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CATCATTTGGT AGCAAAGATT TACAGAATGT CAACATCACA CTGCGCATCC TCTTCGGGCC TGTCGCCAGC CAGCTTCTTC
GCATCTTCAC CAGCATCGGA GAGGACTATG ATGAGCGTGT GCTGCCGTCC ATCACAACCTG AGATCCTCAA GTACAGTGGT
GCTCGCTTTG ATNCTGGAGA ACTAATCACC CAGAGAGAGC TGGTCTTCA

SEQ ID NO:2354: (Length of Sequence = 363 Nucleotides)

GGAGAGGGAT TGGCATCGGC ACCATGGAGC TCCCAGGGCT TAGAGATGGA GCAAAGTTGG CCTCACCTTG GGGAAOCATT
CCTGCTCTG GATACTGGAA GACATTCTGC TGCATCTNAG GATTGATTCC AGTGCCAAAC TGTCCTCTTA GTTTTCTGT
CATGCCCTG CTCACCATGC TGTTCGGTT GGCCAAGGAT GCTTCAGGAT TTNCTGCTAG TTGTGAAAAC GGGCTGGTAG
AAGCAGGTGG GGTTCCTGGG ATTGTIACCA TAGTTTNGTG GATAGGGGAA TTGCTGTGGA GCACCTGAG GAAGACGGG
GTINCCATT TNACTGGTA GTCCAGATGA GGGAGGGAGG GTT

SEQ ID NO:2355: (Length of Sequence = 403 Nucleotides)

AACCAGGAAT GGAGGGCTC CTCATGTCTG AGGTAGAGTA AGACGGTGT AGGGGGCGGA CCGGGGGCG GAGATGAGCA
CCGGCCGAC TGGGGCATCA TCCNGGCCA CCGGGACGA TGGGCCGTG GAGGGCTCAG GCGGTGTGG TGGCCACACT
GCGAAGAATG GATTTTAA ACACTTCATA GCCCCANIT INTTCAGCT CCCTCTCGT GGACACAAC TCAGGGCTCC
CTGTCTACTG GCTTTCGGG GTGGTCTCCC CACTTCAGA GTCTGGTCTC CACAGGACAC CGTCTTCCC TTCCCTTCCA
AGGGGCAGG CCCACGNACC CTCGCCAAA AANTAAAGGA GCTTGTGT TTGAAAACGCC AAGGCAAGCC GTCCAAGGA
GCT

SEQ ID NO:2356: (Length of Sequence = 456 Nucleotides)

GAAAGAAAA CAATTGGTCA AACCACAAGA ACACGTGTAC CTGAGCCTG AGAAGCCAAT TCAGATTCAA CCCTGAATTT
GGTTGATTG GATTAAAGTA CGCAAAAGT CAATAGAACC ATTGANTTTC AGAAATCATA AAGTTGCACT ATGCCAAAGA
AAAGAGTACA TGTGAATCAA GCGTAGATAG AAAACATCAA GCCAAGAAAA CAACACANTT CACATAATTT INTTGGCCCC
GACAAAACAT TTAAGCAGTT AATTTTGT TTGTTTGT TTGTTTGT TGAAGAACAN TTGTGGTCTT TTACATTTTC
TTGGTGGGAG AGCAAAATCT GATCAGCATT AGTGTGTGA AATACTTTTG GNTATCATC CCCCAGTNT AGGGTGAGAT
CATGAGGAAA NTTTTGGCAG TCCTTCTCTC AGATTNGTT CACTNAAANT GCTTGG

SEQ ID NO:2357: (Length of Sequence = 412 Nucleotides)

CCACCCCATG CCAACAAGC CATATTGTCA ATAAATAAGG AATAACTGAA ACCAGACCCT TTAGGAAGAG ACAGAAATTC
CATTACCCAG GAAACCACTC AGTGAAGATG CTGATAGTTC TGATATGTTT TTATGCCCTG CCCCCTTCCC CCAAAAACC
ACCTGCAGAA CCAAATGTTT CTCTCAAAG CCCATCAGCA CAGATTGATA ATAATATCAC TATCAAGCCA GGGCTAGTGC
TTCTCTACAT ACTGTACTGT CACAGGTACA AAGCAAGCCC TGGACAGATA CTGTCTCCCT GCCCCACAA ATCCAGGGAG
GAAAAAGACC AGGGANGCTT TGATTTCCTT GGGATTTAAA CCTCATGTTT AAAAAGGNTA ATAAAGGTGC TCGTACTTGT
ATCTTCTTCC CT

SEQ ID NO:2358: (Length of Sequence = 399 Nucleotides)

AGATGGCAGC AGGTTCAGT GGGGCCCTT GGATGCCTAA GCTGGGGAC GACTACAGCT ACAATCAGTT TTCCACATAT
GGGATGCCA ATGCCGCTGG TGCTTATTAT CAGGATTATT ACAGTGGTGG CTACTATCCT GCACAGGACC CGGCCCTGGT
CCCCCCCAG GAAATGCCC CAGATGCCCT CTTCATCGAT GACGAAGCAT TTAAGCGGCT GCAGGGCAAG AGGAACOGAG
GGAGAGAAGA AATCAACTTT GTGGAGATCA AAGGTGATGA CCAGCTCAGT GGGGCCAGC AATGGATGAC TAAGTCATTG
ACAGAAGAGA AAACCATGAA GTCAATCAGC AAAAAGAAAG GTGAGCAGCC AACAGGCCAG CAGCGGCGG AAACACCAG

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SEQ ID NO:2359: (Length of Sequence = 352 Nucleotides)

CTTCATTAAAC AAGCTGCGAG AGAAGCTGGG TTGCCAGGAC GCCTTCCCGG AGGTGTACGA CAAGATCTGC AAGGCCGCCA
 GGACTGAGCT GGAGCCCGCC TGGAGAGACA GACACGTGTG AGTGGTCAGG CATCTTCCCT TCACTCAAGC TTGGCTGCTT
 TCCTAGATCC ACACTTTCAA AGAGAAACCC CTCCAGAACT CCCACCCTGA CAGCCCAACA CCACCTTCCT CCTGGCTTCC
 AGGGGGGCGAG CCCAGTGGAA TGGAAAGAAT GTGGGATTTG GAGTCAGACA AGCCTGAGTC CAGTTNCCCG TTTAGAACTC
 ATTAGCTGTG TGA CTCTGGG TGAGTCCCTT AA

SEQ ID NO:2360: (Length of Sequence = 359 Nucleotides)

TTTTTTTCAG CATAGTCATC TTAGCTTTAT TGAGTAAGGC ATCCCAATCT CTGCTAAGAT TCNCTAAAT GAACGGCTGA
 TTTTCTGCC AAACATGCA TTGGTCAAAG AGAAATCACC ACCTGGCCAC CCCATTCTGT CCCCTACAG GACACTAAGG
 GTCTTACAG ATAAAGGGAC GATGCATTCA TGCTGGAGA ACTAATCACA CCTGATTCT CTGGGATCTA AANTAATGTC
 AAATTTGAT TCACTTTATG TAAAGAAAAA TCCTTTTNTT TTNTGCAA CCNCTTTCAA GANCAATGCT GCCCATCCCA
 TGCAAGATGT TGTGTAAAG CCANCTCTG GTATACTAA

SEQ ID NO:2361: (Length of Sequence = 437 Nucleotides)

CTCCAGGATT CCAATCCAGT CCGAACTCAA CACGAGGGT GGCACCTACA GGCTGGGGTC AATCTGGAAG ACTGCCTGTT
 GTATGGCCTG GCAACTAAAA AATGTTTTTT ACATTTTAA ATGGTTAACA AAATTAAAT AAGAGAATAT TTCATGACAT
 CATCAAATTA CACGAAATGC AAATTTGAGC ATCTACAAAT ACAGTTTGAT TGGGACACAG CCACCCTCAT CCGTTTGACG
 GCTATCCCTG GCTGCTTACA GGGTCCACAT AGTCCATAAA GCCTGAGGAT ATTTACTATC TGGCCTTTTA CAGAAAAAGG
 TCCCAAACA CTAAATCTGA AATGTTTTCG ATCAGAAACC CTGTGGGGC TTGTTAGGAA TGCACTCCC TGGTCCACA
 NCCAGTCTCT GGATTGAGT AGTCTGGAGC AGGGCCT

SEQ ID NO:2362: (Length of Sequence = 317 Nucleotides)

CTTCTCTGGA TGTGCCTGGG CTGGACTGG CTAGAATCTT TCCTGGACT NTGTCATGTA CAGTGNCTCC ATCCTGGAGG
 CAAGAGAGTT GGGAGTGGCT CGAATCANAG CCGTGCCAA GATATCCCTN CTGTGCATC GTTGAAGCT GACGTCCCTG
 GTCTNTACAC TGCTGCCACT GTTGINTCCT CGNTCTGCTT GCTGTGGCT CAGGCCAGN CCGTCTCTGC CGTGACANCC
 TTCATCTAC CCTTGAACC CCAAGGCCAA GTTGGTTCAA ACTGTTGGAG AACAGAGTTG GCCTGCATCT TGAACA

SEQ ID NO:2363: (Length of Sequence = 412 Nucleotides)

GTCAGAGINT TGATAGTCT ACTGGGAGAC CACAAAATGA CATGGTCCAT CCTCCTCCTT ATCCAAAGAT GCATGGTTAA
 AATAATATAG ATTAGGAATC ATCGTTACCT CCAAACAGT AATTCATTC AAATTTTATG CCCAGACTGG TTTTAAAGA
 CATTCTCTGC CAAAATTTT TGAAGTAAA CACATTAAGG GTAGGTGTGG AGAACGATTA ATGGATTCT TTTTATACTC
 ACATCTGTT TGGAAATATA TTTATSCAA TAAAGCATAA ACTAACAGGT ATACTTATAA ATGTCTGGTT TTAGAAACAC
 TAAAGATCT CCAATCTAG GAGGCCCTAA TTGAAACTC TGCITTTATT TGCTGAAC AGTGGCTAAC CTGINTAGGC
 ATCTCACGAG GG

SEQ ID NO:2364: (Length of Sequence = 334 Nucleotides)

GAAATGATTT AATATTAGGA AAGGCAAGT CCTCGAGACA TTTATTTAAG CTAACTGTC CTGATTTTT GACTTTCAGA
 TTCATTACAC CCAGCCACAT TAGCCTGCAC CATTAAAAAC ATTGATTCAA CCTCTCTTAT TGGCATAGAC AATACATCTG
 CCTGTTCAC TACTCTATCC TCAGCTTGGT ATTTCTCTAG CACAGAAGAA TGGTCCAGTA GATATGCTGA AGAAATACCT
 GAATGCATAA ATAAATAAGA AAATGAGAGA CTGAATGANT CAATTAATAC CTCAAGTGT ACCCTNGATA AGTTCTAGA
 GAGGGGAGGT TCTA

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SEQ ID NO:2365: (Length of Sequence = 423 Nucleotides)

TTTTTTGCCA TTTAATAAGT ACTTTATTGA TATTATATCA CACAGCACTT TACAGTATAC TCAAAGATAG CCTAAATTAT
GAATTAAACA TGCAAATATT TNCITTTTCCA AAATGTGGAC AAAATGTCTT TTAGAGTGCT TTTGAACACT AGCCTTAGCT
ACTAAGCAIT CATGGGTTTG ATCTTTCITG CGACATGACT TTAAGTAAAGT TAACAAAAAA TGTAGCTGTA GACAGTAATT
GTTTGATAAA TATGANCAGT TTTAAAATGG CACTGAATTT ACATCTTTAA TCATTTTAAT AGGGCCATCC ACAGCCTCTC
TTGTGTCTCT AATTCTCAAC CTCGGGGTTC TTTAAAGGCG TGGTAAAGGC TCAGAAAGTG NCCAGCTCCA TGTGGGGTCT
CTGTAAGNNG TCTATGTCTT CAT

SEQ ID NO:2366: (Length of Sequence = 294 Nucleotides)

CCAGCCATAC ACATGCCITT ATTTAGATCA GCTTTTTC AATGTCAGCC AAAGTTATGA GTTGGACAGC CCAAAGTAAC
CAGCCCTATT CCACTGAGIT AGTTTACCCC ACAGCAGTAG AACCCAGTGC TGGTTTGGTT CCTGGCCCAT GGTGGGACAG
CGTGAAGGTG ATGGAGGGCT CTAGCACAAG GAGGTGCTGA GTGCCACCG CAGGTGCTTC TGCAGACAGC CTAGAGCAAG
GTAAGCAGGA GCACTCGNIT CAGAACCGAG GCGGCTCGGA CCAGAGGGCA GGCA

SEQ ID NO:2367: (Length of Sequence = 393 Nucleotides)

ACGGACAGAG CGAAGGGGAG AGGATGGTAG TGCTGACTT CCACGTTTTC GTCAGGGATG TGTTCAGCA TGTGGATTCC
ATGCAGAAAG ACTACCTGG GCTTCTGTC TTCTTCTGG GCCACTCCAT GGGAGGCGCC ATGCCCATCC TCAAGGCGCG
AGAGAGGCGG GGCCACTTCG CCGGCATGGT ACTCATTTG CCTCTGGTTC TTGCCAATCC TGAATCTGCA ACAACTTTCA
AGGTCTTGC TGCAGAAAGT CTCACCTTG TGCTGCCAAA CTCTTCCCTC GGGCCCATCG ACTCCAGCGT GCTCTCTCGG
AATAAGGACA GAGGTGACATA TTTATACTC AGACCCCTG ATCTTNCCTG GGCANGGGCT NAAGGTGTC TTT

SEQ ID NO:2368: (Length of Sequence = 187 Nucleotides)

GATCTTGAAG TTAACCAGT GTTGAAGTT TTGGTGGGA AGACAATTA GCACTCTCTT CTGGANGTAA TGGAAGAAGA
AGAGCTGGCT AACCTGCGGG CCAGTCAGCG TGAGTATGAA GAACTACGGA ATAGTGAACG TCCTGAAGTT CAACGACTTG
NAGAGCAAGA NAGGCGACAC CCAGAAG

SEQ ID NO:2369: (Length of Sequence = 341 Nucleotides)

GTATCTTTAG TAGAGGCGGG GTTCCACCAT GTTGGCCAGG CTGGTCTCGT ACTCTGACC TCAGGTGATC ACCTGCCTCC
TCGGCCTCCC AAAATGCTGG GATTACAAGC GTGAGCCACC GCGCCTGGCA CCATCAGTTT TTGATCCTGA TACTTGTCTG
TCTCTTGGT TCTCTCATC CCTAATTAA CCTTGAACAC AAAATTCAAC AGGTTTGGC ATATAGAATA AAGATTATCA
GGCAAAGGCG CACTCTTGAC CTAATGATAT ATCTACATTT CATTTCTGA TCTATCAGCA ATATTTAATT TGCTAGAAA
TGATGAGAAG TTTAGAGGAG G

SEQ ID NO:2370: (Length of Sequence = 337 Nucleotides)

AGATCAAGAT CTCTCCAAA ATGCCAGTAT GCAAAGGACA CTGGGGCAG CCTCTCAACA TTTTCTGCCT GACTGATATG
CAGCTGATTT GTGGGATCTG TGCTACTCGT GGGGAGCACA CCAACATGT CTCTGTCTT ATGAAGATG CCTATGCTCA
GGAAAGGGAT GCCTTTGAGT CCTCTTCCA GAGCTTTGAG ACCTGGCGTC GGGGAGATGC TCTTCTCGC TTGGATACCT
TGGAAGTAG TAAGAGGAAA TCCCTACAGT TACTINGACTA AAGATTGAGA TAAAGTGAAG GAATTTTTTT GAGGAAGTTA
CAACACACAC TTGGATC

SEQ ID NO:2371: (Length of Sequence = 320 Nucleotides)

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CGTGGCCGCA GAGGCAGCTG AGCATGAGGG ATGGAGCGTG CTGCTGTCTT GCAGGTGCCG TTAGCCCTGT TTGCACTGG
 TGGATTGATC TGCTCAGGCG CACAGGGAGA TGGCAGCA GAACCCGCG CCCAGCCTCG CTGAGGGCAT GCTCCCGCTT
 CACCTCCAGA GGCTGTTGGG CGGAAGCGAG AGCTGCAGCA GTTGGGGCCA GCNTGGGACT GGAGGCCAG GTGAATCTTG
 TGGGGCAGGG GACGGAGCTN AGGCTGTCCG GCGGGGCC TTCCACCCA AAGGCCCTAG AACCTAGGC CTTCAATCCT

SEQ ID NO:2372: (Length of Sequence = 326 Nucleotides)

AGGCCTGGCA TGCGCGAAA AGTTCTTGA GAAGGCTCC CCTCCCAA AACACCGAG AAACGTGGG ACCTCATTAT
 TGAGTTTGA GTGATCTTCC CGAAAGGAT TCCCAGACA TCAAGAACC TACTTGAGCA GGTCTTCCA ATATAGCTAT
 CTGAGCTCCC CAAGGACTGA CCAGGACCT TTCCAGAGCT CAAGGATTT TGGACCTTC TACCAGTTG GGACCATGAG
 AGGTTGGGAG GGCCAGGGA GGGCTTTCG ACTNCTGAAT GTTTTNCAGA GCATATATTA CAATCTTCA AAGTCGACA
 CTAGGA

SEQ ID NO:2373: (Length of Sequence = 361 Nucleotides)

AGCAGAGCTG AGGGAAGGCG TAGGATGGCT CCAGCTTCG GTCAGTGGCT ACATGGTCAG TTCCATGATG GCGTTGACGA
 TGTACTGTG GTTGINTCTC AGAGCCGCA CGGCCTTGGC CCTGGACACA TTGGCCTGCG CCATCACCAG CTCAATGTCA
 CGCAGTTCCA GCGCCGCTC GTCCACCTCT TCCTCTCTCT CCTCTCTCTC TTCTTGACAC TCCAGCCCA CCGGGGCT
 GGGTCTGAC TCAGGACCA AGGCTGAGG CTCTGAGGN ACCTTAACT TCTCAGCTG GCGTTTGTG ACTTGCTGGG
 ACAAGGTCT CAATCTTGN CTCGCCAAG ACCACATAAG T

SEQ ID NO:2374: (Length of Sequence = 281 Nucleotides)

TGACTCTAGT CTGGCACITA TTGATGACAT TGAGAGGCTG AAATATGAAA TTNCAGAGGT GATGACAGAG ATCGACAATC
 TAACCTCCGT AGAGGAGAGC AAAACGACTC AGAGGNACAA ACAGATAGCC ATGGGAAGAA AGAAATTCAA CATGNTCCC
 AAAAAGGGAA TTCAGTTTCT AATAGAAAAT GACCTGCTAC AGAGTTCCCC AGAAGACGTC GCCAGTTCC TTTATAAAGG
 AGAAGGCCTA AATAAGACCG TCATTGGGA CTACCTGNGG T

SEQ ID NO:2375: (Length of Sequence = 391 Nucleotides)

ATGTTTAGTG CTTCCTCAG GAGCTCTGGT AGGGCAGGTC TGGTGGTGAC AAAATCTCTC AGCATTTGCT TGTCTGTAAA
 GGATTTTATT TCTCCTCAC TTATGAAGCT CAGTTTGGCT GGATATGAAA TTCTGGGTG AAAATCTTT TCTTTAAGAA
 TGTGAATAT TGGCCCCAC TCTCTCTGG CTTGTACAGT TTCTGTGAA AGATCTGCTG TTAGTCTGAT GGGCTTCCT
 TTGTAGTAA CCGACCTTT CTCTCTGGCT GCCCTAACA TTTTNCCTT CATTTCAACT TTGGTGAATC TGACAATTGT
 GTATCTTGA GTTGCTGTT TCGAGGAGG AACCTTTGTG GCGTTCTCT GTAATTTCCC CGAATTIGAA A

SEQ ID NO:2376: (Length of Sequence = 324 Nucleotides)

CCAGCCCTCC CTCAGCTGGG AACACAGCCA GGTGCCCTCA GACCCCTGNN TCTGCACAAG GGGGGCCTGC CCCCTGCCC
 CAGCTATATA CACGACAGCC CATCTGCTG GCGTGGACA AAAGCTGGGA GCTCCTGTGC CCAGTCAGGA GCGCTACAG
 TCCACCAGCT GCGCGGCCG GTCCAGGGC CCACTGTGGT GCCAGNAGT TTNTCAAAC CNAGGGCCA GCGCCAGCTG
 GCNCTNGCC AAGCCCCAGG CTTGTTTGT GGGATGGAGC CTCCACACTG AGGCTGGTAA AAGCTTGAAC TCAACAGCAG
 CAAT

SEQ ID NO:2377: (Length of Sequence = 357 Nucleotides)

GTATTATGTT TTATTTATGT ATTTAACTG ACTTATTTGT GTATCCCACT AGAACAATAC ATTCAATA TACTTGAGA
 ACTGTGCTG GTGCTCATG GGAGCAGAGA ACTTGTCAG TGAATAGTTG TTGAAGAAAG GAGTAAATC TCCCCAAAC

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CCTAAAGGCA TCCTTTTGGT AGTGTGTGTC CCATAGGTAT GGCTGCTGAG CACCAGGGCT GCTCACCATG CTCCCAAGAA
GCAGAGTCAG GGAGGCAGAC AGCAGGGTTT ATTAAGGTGC ACACCCATGT CTGAGCCCA GCTCTCTCCG NCTTCTGTGG
GGAGGAAGCC CTCCGGTCTT TCCGAGGAAC CTTCAA

SEQ ID NO:2378: (Length of Sequence = 454 Nucleotides)

GACGGGTCTT TCAATAGCAA GTTTTCACTT CATCGACAAC ATCAGGAAGG TGGTAACAAA CAAATGCTTT ATCAGGCTGG
ACTTCATTTT AAACCTCCCC AAAGCACAGA TCCATTACGC ACATTTAAAG ATACCATCTA CCTTACTCAG GTGATGCAGG
CCCAGTGTGT CAAAACAGAA ACTGAATTC ACCGCGGTAG TCGCAGCGAG ATAGTGGATC AGCAAGGGCA CACGATGGGG
GCACTTTATT GGCAGTTGAA TGACATCTGG CAAGCTCCTT CCTGGGGCTT CTCTTGAGTA CGGAGGGAAA GTGGAAAATG
CTTCATTACT TTGCTCAGAA TTTCTTTGCT CCACGTGTGC CAGTAGGCTT TTGAGGAATG AAAACACGGT CTATATCTAT
GGGTGTGTCA GATCTTCACT CGGATTATTC GATGACACTC AGTGTGAGGA GTCC

SEQ ID NO:2379: (Length of Sequence = 224 Nucleotides)

GGAAGAGACC TCACAGGTAA TTAAANGTGT ATTTTNTGGA CCTGGGCTTG GCTGGAATGC TCAGGGGTCC TGAAGATCCT
ATTATAGCTT CCTTCTGTGT AACCATTAG AAAAGATGGC GANAGTCAAC ATAAGTAGAG ACCTCATCCG TAGNAGATCA
AGGAGCGGGG TGCCCTTAGC TTINAGCGGC GCTACCATGT CACTGTNCCC TTTATCOGGC GGCT

SEQ ID NO:2380: (Length of Sequence = 274 Nucleotides)

AGGTTTGAAA TATCTTTTGT CAATAGATAA TCTTATTTAC ATTAATACAG AATCATTTTA CATTCCTAAA TCAGACACTA
ATAGATGCTT TATTTTAGTG AATTATAAG GAAAACAAA AGGAAACTGT TGAGAAGTGT TCTTCATTAA CNGTCTAAC
GNCAGCCCGA AGATCCNGA ACACATGGAA ACTGCGNCAT GCINCCNGCA GAGGCTGGGG AATGGGGGTT CTGCTCTCAC
TGAATGGTGG GGAACCTTCA ACTGCTTAGC CTGT

SEQ ID NO:2381: (Length of Sequence = 312 Nucleotides)

GCACAAACAG TTTTATTGTA TGANCCACAG TGAATAACAG GNTCAGAAGA CAGTGCAGAT ATTCTGAAGA AGGCACTGNG
GGAGGTAAAG GGGTATCACA GCAGGCAGCC TCCTCTGNTT CTNCCCAGT TCACAGATGA GTTCCAGGCA GGAAGTCTCT
GCAGGTACCC CACGGCGGCC TCAGAGGGAC AATTINTTCC CTCTAGAAG CCINTTCCAG TGTTCAGTGG ATGNTTTGAG
GACAGNTCTG GGCAGAGGAG GTGACTCTGT GAAAGATGCT ATCTTAAGAT GGGGAGACTA GGCTGTGAGG AG

SEQ ID NO:2382: (Length of Sequence = 402 Nucleotides)

CTTAAACTAA CTTTGAAGCA AGTAATGTCA ACTTTGAGCA CTTTGTGAG TTTTGAAAAA TCTTATTTGT TGCTGCACAG
GTTAATAAAT TATCAATTGT TAATTACGCA TGTGGTTCAG AGACACGGTC ACTGATTCAC ACCAGTCCC TGCCACAGAC
CGTCTCAGAC ACGCACAGTG GGCTGCTGC ATGATTCACA CCCAGTCCCT GCCACAGACC GTCTCAGACA CGCACAGTGG
GCTGCTGCA TGGTGTGTTAC CTGGCTTTTG GCTCCAGCT CACTCATAGC CATGTCCACA TGGGGGGCTT GCACACAGGA
TCACTCATAT ATGTACATGT ACCCACCACA AACGTGCAAA GCTCCTTGCA CACATGCATG CACACAAAG TGGTACACAA
GT

SEQ ID NO:2383: (Length of Sequence = 406 Nucleotides)

GACCTTTTTC ACTAGCCCT CTGGGTTTG CAACATGCTT TCTCTCTCAC CTTCTCATTG AATGAGAAAA AACAGCCCAG
CCATTTTTTG CAAACAGCAA AGCACCAGAG TGATGATGGC TTGCTCATC TCACTTGACT TTCACAGTAA CTCAGTTTGA
TGTAGGCAGT CCAGGCATTA TTATTTTCAT TTTACAGATG ATGCAACTGA GGCTCAGTGT GGTGAAACAT TTGGCTCATA
GCCACACAGC TGATAAGCAT CAGGGACTTG GGACCTAGGN CTTACATTT CAAGTCAGCT GTATCTGTCC CCAAGCCCCA

CCAGACTTCA TGGAAGGTG GCTGCTCTG GGGTGATGGT GGCTGGAGAG GCAGACTTIG AGGCTGCCAT GCTCTTATTT
TCAGAT

SEQ ID NO:2384: (Length of Sequence = 165 Nucleotides)

TTAAGACAAT AATGAAAGAT TCTGTACAAA GTTACCAAGT CTACAGGCTG AGCGAGCCAA GGGTAAGTGG GGCCTGATCC
TTGTGGACGA ATGTNCCCGG GAGAGCTGGC CTCACCTGGG GGAGGCACGT TGAAAAAGTA CACATTTACA GGGCTCGGGA
AAGGC

SEQ ID NO:2385: (Length of Sequence = 297 Nucleotides)

GGTTTINATT CATTCTCTC TATTAACTTC TCTAAAGGAA ATTGGGCACC TGTAATCCCA GCACTTTGGG AGGCTGAGGT
GGGTGGGTCA CTTTINAGGTC AGGAGTTCAA GACCAACCTG GCCAGCATGG TGAAAACCCA TCTCTACTAA AAATACAAAA
NTTAGCCAGG CTGGTGGTGT TCGCTGTAA TCCAGCTAC TCAGGAGGCT GAGGCAGGAG AATTGTTTGA ACCTGGGAGG
CGGNGGTTGC AGTGAGCTGA GATCGTGCCA CTGCATTCCA GCCCAGGGTG ACAGAGT

SEQ ID NO:2386: (Length of Sequence = 290 Nucleotides)

AAAAAATAAA GTGAATTTAT TGGTTCATGT AACTGGAAAG TCTCATGAAA ATGTCAGCTT CAGGAGAAGC TTGACCCAGC
AGCTTCATGA TGTATGGAAA TACCTGGGTT TTTTGTCTCT NCTCTGCTAC TGTGGTATCA GCTTTATTC AAGTCTGGCT
TCCTTTGTG TTGCAAAATG CTTTGTGAGA AGAAGCCTGG GTCCATCTGT TAGGNTTAAG TTTACTCTGT ATGCTGTAGT
AGTGGCTATG ACAAGATTAG GAAGTGATTT TTCTCTCTCC ATATTAAAG

SEQ ID NO:2387: (Length of Sequence = 356 Nucleotides)

GTCATCTGTA TTGTACATG AAATGCACAT CCAAAACGGG TGAATTGGAA ACGACCTATT AGGTCACAGG GAGTCCGGCC
CCTGGGGGCA AAGCCTCATC GATGCCACG GCGGTGGCC AGCACTTTC TTGGGCTGTG GGTGTGCAC CCGGCCTCCC
CAGCGGAGAG TCAGCTCACA CCCCAGGCCC TTTAGCTCTC TGGCAGCAGC TCCCAAAACG CACTTGAGGA ACCAATAATT
CCTTGGGGGT TAATAGCTGT TCCCCAAGAA AAGGGTTCTG TGGGTCAAAT AAGTTTAGGA AAACATGGGT TAAAGAAGGT
TTAGGCAAGA AGCTTTTCTA TAGGGCTTTG TCAGAG

SEQ ID NO:2388: (Length of Sequence = 226 Nucleotides)

ATTATTGGTA TAAAAACTTA AGACGGCATT AGAATTCTTA AGAAAAGGTG TAAAAATTAA AAAGATGTGC AAACAACAAA
GAATGCCCGA CCTGAACCA GACCTAAAGC ACCTTCCANT TCCTCCACAC ATCATGCCCC AACACCATCC AGCCCAATCG
GACACCAGGA CAGTGAGGGA CGGGTGGCTG TTCAGTGGGC AACAGATCTG GAAGGAAAGA TTTTCA

SEQ ID NO:2389: (Length of Sequence = 250 Nucleotides)

CCCAGCTAGG CCTTGGNATG GCTNCAGTGA GGAGAAATCC CGGGAACGTG ATTGACACAA AGATTCTNAT TGCACTTGTA
TTTTTNTATT AAAGTTTGCA TGGTTTCTAA TAAAGGATTC AAACATAAGT TTGTAGTGAA ATGGCCTGGN AGATTCCAAG
GGCTTCTCTN GAAGGGGGAT TGNGCTGCAN TGTAGATTIN CCTCTGAAGG AGGCTGGCCC CAAACTTGGN CCTCCTCATG
ACCCCTCTCT

SEQ ID NO:2390: (Length of Sequence = 371 Nucleotides)

CCTTTTCTG GAGAACGGGG TCTCGCTATA TTGCCAGGC AGGTCTCGAA CTCTGGGCT CAAGCTATCC TCCCGCTCT
NAGCCTCCGT TTCCAGAAGG TCACCAAGTA ATATCTGCNT TTCATCAGTT GCAGTTAAGA TTTTNTTTC TTGAAATACT
GGTTTTCAAA CAGATCAGAA TTACCTGGGG AGCTTGTTTA AAATATAAAT GCCCCAAGGC CAGCTCCAGG ACATTCTGAC

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TCCATAGGTA TGTGGTAAGC CCAGGGAATC CAGGTAAGCT CAGGTAAGCC CAGGGTAAGC CAGGGAATTG TTAACAGGAA
GCTGGTGGGT TTCTGGCACC TNGACANOGA CTGAATTCTA GGTAGCTTGC C

SEQ ID NO:2391: (Length of Sequence = 200 Nucleotides)

CAGTTCAGCA GGCTATGAAA TTTGTGGGC ATATAAANA CTGGAACCTT CAACAGGGTG GTTTGAAAC TAGNGCATT
ACCAATAAAT GNCAAAACCA CAAGGACAGT GCATTGTGTC ACATAGANGA TCTGGAAAGT ACAGCTGTAA ACTATAATCN
CCAGTCTCTG AGTTAGCACC TTCCACGNT AGTCTCTTAC

SEQ ID NO:2392: (Length of Sequence = 234 Nucleotides)

TGCTGAGGT GTTGGTTTG GAATAGGGAA AAAGGTAAGA GACTAACGTG GAAAGGTGCT AACTCAGAGA CTGGAGATT
TAGTTACAG CTGTACTTTC CAGATCTTCT ATGTGACACA ATGCACTGTC CTTGTGGGTT TGTCAATTTAT TGGTTAAINC
TCTAGTTTCA AAACCACCT GTTGAAAGTT CCAGNTATTT ATATGCCCAA CAAATTTTCAT AGCCTGCTGA ACTG

SEQ ID NO:2393: (Length of Sequence = 337 Nucleotides)

TCCAGAGGCG GATTGAGAAG AAAGGAGATC CACATGAAAT GAAGATCACC TCTGCCATC TACAGGACAT TGAGAATGCC
TATAAGAAAA CCTTCTCCC TGAGATGAGT GAAAAATGTG AGGNTTTACA GTATTCTGCA AGGGAAGCTC AAGATTCAAA
AAAGGTGGTA GAGGACATTG AATACCTGAA GTTCGATAAA GGGCCGTGGC TCAAGCAGGA CAATOGCACT TTATACCACC
TGCGATTACT GGTTCAGGAT AAGTTGAGG TGCTGAATTA CACAAGCAIT CCTATCTTIN TNCGGAGT CACCATTGGA
GCTCATCAGA CTGACCG

SEQ ID NO:2394: (Length of Sequence = 211 Nucleotides)

CAAAATGTTA TTTTATATAC AAAGAATTAT CATGGTTTIN CATTGAGTAG ATGCCCCGGA TAATCCTCTG AAGGAAGAGC
ATTTAGTCCA ACTTAATGAA ACCGATATCC TTCGGTACT GACGGAAACA CTGGCGGCAC ATATTGAGGC CATATTTCCG
GATCANACCG TGCCGGTTTG AACAGACACG ACAAGAGCGA GAACCTGCC C

SEQ ID NO:2395: (Length of Sequence = 335 Nucleotides)

CTGAAAGCTG TAACACCCCTC AGGTAATAAC AAAAGGGATT TTTATTTTAC AGCTAAAGGG AAAATAGGTG GAGAAGTTAA
AAAATAATGT CTGATCCTGT TCCTAAGTTC CAACTATAG CCAACACTCT GATGCTGCTC TTTTCTTGT AGGACCAACC
GTCCAGTTT GCCTGGGACT TTCTCATTTT TACAGAGTCC CAAATCCTAG GAACTGGAG CAACTGGTAC AACTGGTCAC
CTACTCTTGC CCCCCTGGTA AATCAAGNCA ACTGTGACCA TCCATGTGC CATCTTACAG GGNAAAGTTA TAACCCACTA
TTCCCTATA ACATA

SEQ ID NO:2396: (Length of Sequence = 223 Nucleotides)

AGGGAGATCC AGCTCGTCC TGCCGACAGC AGCACAACCC TGCAACCCA CCATGGATGT CTCAAGAAG GGCCTCTCCA
TGCCAAGGA GGGNGTGGTG GGTGCGGTGG AAAAGACCAA GCAGGGGTG ACGGAAGCAG CTGAGAAGAC CAAGGAGGGG
GTCATGTATG TGGGATTACA TTTTITTTTT AAAGAAAGAA TAAATTAATT GTGATTAAAG TTG

SEQ ID NO:2397: (Length of Sequence = 379 Nucleotides)

CCATTACAAA GAATGTGGCA ACTTGCTTNT NOCTAAAAGG AGGAATTGGA ACTAGAATGT GTGACTCTGT GGGGACTGCA
TAGGTTTGT AATTGACCTA TAGCTAAACC TTAATGTGTT TGTGTGCTA TACATTGCTT TCGCAATTC AAGACATCCA
GACGCTATTA CCAACATTTT CCTGTGCAIT AACCTCTGCA TGTGAAACT TTTACAGTT ACTGAACAT GTAAATATGT

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GAATTTTTTT ATTTAGGTGG ATGCATTTTT NGTCTGTTTA CTGCTCTTCT CAGCTTTATT CAATAAACTT GCAITTTAAG
GGTTGTATTG GCAATTTTAA CTTAAAATGT GCATCATGAT GGAAGGTGCA GACCTTTTT

SEQ ID NO:2398: (Length of Sequence = 421 Nucleotides)

GACAGGTTGG TCTTACCCAC TGGNTCCCAG TCATGCTGTA AACAGGGCTT GCTTTGGAGT CTGTCAGACC TGGCTTAGAC
CCAGGCTCTG ACCAAATGGG TGAGTTATGC AGCTACTTGG TGGCATCTAA TACCCTATCG CAAAGGACTG CCGTGAACAG
GAAGGAGGTG TCAAATTTGG CAGTGCCTGA TGAGGTGAGG CCAGGACCCA GGAACCTCTA TTCCCTCCCA TGCTCAGGAA
CAGTAAGTGT TCTTCTATCT GCAGAGGTAG ATGCTTAGCA CATCGTGGGT ACTTCACTCA TGATTGCTAA AATTTGAATT
TGTGGATAAA GTCATTTCAA AAGTCAGATT CTAGGACCAA AAATACAATA TCTGTCCAAC ATGGAAGTGT TAGATCATGG
TTTTTCCTTC CAGCCCCAGG A

SEQ ID NO:2399: (Length of Sequence = 392 Nucleotides)

GATAAGCTTG ATATCGAAAG TNCCACAATG GGTGAGCTGT ACCAGGAACA CCATGAAGAA GACTTCTTTC TCTACATTGC
CTACAGTGAC GAAAGTGTCT ACGGTCTGTN AAGCTGCTGC CCTGAGCTG GAGGGGGGTC TCATTCTACA AAGAGAGAGG
TGGCCCCCTT TTCTTGACCT CCTCCTCCTT CAAGCTCAAA CACCACCTCC CTTATTTCAGG ACCGGCACTT CTTAATGTTT
GTGGCTTTCT CTCCAGCCTC TCTTAGGAGG GGTAAATGGT GAGTTGGCAT CTGTGAATC TCCTTTCTCC TTTCTTCCCC
TTTCTCTGCC CGNCTTTCCC ATCCTGCTGT AGACTTCTTG ATTGTCAGTC TGTGGTCACA TCCAGTGGAT TG

SEQ ID NO:2400: (Length of Sequence = 366 Nucleotides)

CTGGGGAAGG ACTGGCACAA GTTCTGCCIN AAGTGCAGC GCTGCAGCAA GACGCTGACG CCCGGGGGCC ACGCCGAGCA
TGACGGGAAG CCGTTCTGCC ACAAGCCGTG CTACGCCACC CTGTTGGGAC CCAAAGGCGT GAACATCGGG GCGCGGGCT
CCTACATCTA CGAGAAGCCC CTGGNGGAGG GGCCGCAGGT CACCGGCCCC ATCGAGGTCC CCGCGGCCCC AGCAGAGGAG
CGGAAGGCGA GCNGCCCCCC GAAGGCCNCA GCAGAGCCTC CAGTGTACC ACTTTCACCG GGGAGCCCCA CACGTGCCCC
CGCTGCAGCA AAGAAGGTGT ACTTCGCTTG AGAAGGTGAC GTCTCT

SEQ ID NO:2401: (Length of Sequence = 385 Nucleotides)

CATCCACCCA GGGATTAGGG TTCAAGTAGC AGCTGCTAAC CCTTGCACCA GCCCTTGTGG GACTCCCAAC ACAAGACAAA
GCTCAGGATG CTGGTGATGC TAGGAAGATG TCCTTCCCCT CACTGCCCCA CATCTCCCA GTGGCTCTAC CAGCCTCACC
CATCAAACCA GTGAATTTCT CAATCTTGCC TCACAGTGAC TGCAGCGCCA AGCGGNCATC CACCAAGCAT CAAGTTGGAG
AAAAGGGAAC CCAAGCAGTA GAGAGCGATA TTGGAGTCTT TTGTTTCATC AAATCTTGA TTTTTTTTTT TCCTAAGAG
ATTCTCTTTT TAGGGGGAAT GGGAAACGGA CACCTCATAA AGGGTTTCAA AGATCATCAA TTTTT

SEQ ID NO:2402: (Length of Sequence = 392 Nucleotides)

AAAGAACTTG GTATCTCTAT TAAAGTACAT GANCTCCAA GGAAAATAGA GCGATTTACT CTTCTCCAAT CAGTGCATAT
TTACAAGAAG CACAGAGTTC AGTATGAAAT GAGAACACTT TACAGATGTT TAGAGTTAGA ACATCTAACT GGAAGCACAG
CAGATGCTA CTTGGAATAT ATTCAGCGAA ACTTACCTGA AGGGGTGCC ATGGAAGTAA CAAAGACACA ATTAGAACAG
TTACCAGAAC ACATCAAGGA GCCAATCTGG GAAACACTAT CAGAAGAAAA AGAAGAAAGC AAGTCATAAA GCCTTCAGGG
AGGCCATTTT TGCTTAAATT TTGAAATGAG GGTGGGCCAG ATGAGTATGT TTAAGTGGAG AGTGCTTTCC AG

SEQ ID NO:2403: (Length of Sequence = 179 Nucleotides)

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TCATTAGTT ATACTCTGG ATAGGAACAC TGAGGAAAAA TGAAGATGA GATTGCAAT AGGGATTCTC TAATCTCAT
GTAATCTGT TTGTACCAT TTTACTTG TCTTTTGGG ATCTCTCTT TTTATTAGAT GATATTAAAG GGGATTAAAG
TGTATTGTA TGAATGTC

SEQ ID NO:2404: (Length of Sequence = 399 Nucleotides)

TTCCCAAAGT GGTTGTAACA TTTTACACTC CTTACTAACAG TGCATGGGAA GCCAGTTTCT CTATATCCTC TCCAACATT
GGTGCCTGCA ATCTTTTAAA ATTTTAGCCA TTTTGTGGT TGTATAGTGT TATCTCATG CAGTTTAAAT TTGCCGATCC
CTGAATGTGT GTAGGTGTGT ATATGTATA TATAATATAT ATATNATNCT TTTACTTATT TTGAAGTAAT TTCAAAGTTT
CCAGAATAAT ATCAAGAACT CCTGTACTCC CTTGCCAGA TTCTCCAATT GTAATGTTTT ATTGCATATG CTCATTGCC
CATTCTCTC TCTACTATA GCTTGCAATTA GTGTTTCTT GGAACCNITA GAGATGAAGG TGGAAAAAG GATGCGGGT

SEQ ID NO:2405: (Length of Sequence = 404 Nucleotides)

GGAACAGAGT GACCTGACCA CCTAACATC AGCTGCATAC CAGCAGAGCC TGACTGTCA CACAGGAACT CATCTCTCA
GCATGAGGG GAGCCCTGGA GGACACAATC GCCCAGGCAC CCTCATGGCA GCTGACAGAG CCAAACAAAT GTTTGGACCC
CAAGTGCTTA CGACCCGGCA CTACGTGGG TCAGCAGCTG CTTTTCAGG GACACCAGAG CATGGACAAT TCCAAGGCAG
TCCGTGGTGT GCCTATGGGA CTGCTCAGCC CCCACTCAC TATGGGCCCA CACAGCCAGC TTATAGTCTT AGTCAGCAGC
TCAGAGCTCC TTCGGCATTC CCTGCAGTGC AGTTACCTAT CTTAGCCAC AGCCACAGGC CTATTGCTGT GCATGGGCCA
TTTT

SEQ ID NO:2406: (Length of Sequence = 280 Nucleotides)

AAGAGAGAAC ATTTTATTG TCTATAATTA GGGTAAACAG TTGGGTAAAA YCTTACTAAA AGAAAGTTAA GGTGTCTTA
ACACAAGATA TATAATGNC AATAATYAGT AATTAAATTT YAATTAAM CAGCTGCTT GGAAATCCAA CATGTATCT
TCAAAATAAT TTACCTAAAT AACTATGAA AATGGATGTT ATTGTACAAC TCATCTCTCC TTATAAAGG NGAACAAAGG
ACATAGGAAA GCTGAAAAGA AGGCTAGATG AAGATACAGG

SEQ ID NO:2407: (Length of Sequence = 350 Nucleotides)

TCCAAGGGCA ATATAAATTA CAGTATGCAA AACATACTGA CTGGCTGAGG TAAACGCAC TGCTCTGCTC TCAGTCAAC
ATGAGGGGAA ACACACATAT GCTTTTAAA ACATCTGGCT TATAAAAAA CATCCCTAG AAAGGCTCC AGAGAGGGG
TGTGAGGCTC ACCCTCTGCC GCGCTCAGGA GGACCCGCC GCTCAGCCCT GCGCCCTCCA CTGCAGCCAT GGGTGGGCC
TCCCCCTACT GCTGCCCAG GGCTCTGTC AGGTGCTCT TGATGGTGT GAGGAAGTCC GTGGTGTCA GGAAGTCTC
GTTCAGCTC ACATTGCTGA GGCGTGAAT

SEQ ID NO:2408: (Length of Sequence = 239 Nucleotides)

ATNGNTTGG GTTCGNAGA AATGGATGTG CGGAAGAAGA AGAAGAAAAA AAATCAGCAG CTGAAGANC CAGAGGCAGC
AGGCCTGTG GGGACAGAGC CCACAGTGA GACTGTGAG CCTCTGAG TCCGTGTC GTCCACCACC AAGAAGAGGA
AGAAGCCCAA AGGGAAGAA ACCTTCGAGC CAGAAGACAA GACAGTGAAG CAGGAACAGA TTAACACTGA GCCTCTAGA

SEQ ID NO:2409: (Length of Sequence = 331 Nucleotides)

TCTCTCAAG AATTTAGAC CAATGACCG TCTGTCTCT TTAAGCTTA GGAAGAGCAG TGTGGCTGCC CCTTTAAGGA
GGCGTTGCA CAAACCATAT TGGACAGAG ATGGGGCGA CCCATCGGA CCCGACGGC CTCTGACTCC AGCAATACAG
CGAATCAGC GCTTTCGGGA ATACATTTT CGGAAAAAGA CTTCTCTCT GGTTCCTGC TCTGCACAG TTGAAATTT

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CCCCAGTTT TCTGTCAGAT CGGGAGTGA GCAATGCTA CCCCCGCTC CCGCACCAGT TGGGCGCTCC CGGATGATGC
CCTACCCCTT T

SEQ ID NO:2410: (Length of Sequence = 135 Nucleotides)

CTGCAGGACT TGCGAAGAGC GTGCATTCCC AGTGGGCGAA CGGGAATTCG AACGGAGAGA GGGTTATCTT GTGGGGGGCT
ACCCGTGGAG AGCAAGGCGC CCCCAGGGT TGGNTCGGTG AAATTNAGGT CGCCC

SEQ ID NO:2411: (Length of Sequence = 330 Nucleotides)

ATGCTGCTCG GTTCTCTTGT CCCCCAACT TTACCGCGAA GCCCCAGCT CAGAGTCCCC TCGTTTCTCC TTGGAGGCGC
TGACGGGTCC AGATACGAG CTGTGGCTTA TTCAGGCCCC TGCAGACTTT GCCCCAGAAT GCTTCAATGG GCGGCATGTG
CCTCTNTCTG GCTCCAGAT CGTCAAGGC AAATTGGCAG GCAAGCGCA CCGCTATCGG AGTCTCAGC AGCTGTCCCC
AAGCTGGAGA AGCGACCTG CTGGCCCCCT CAANGGAGGC AGGAGGTGGA CTCACCTGTG CCTCAGCCCC CCAGGGCACC
CTAAGGATCC

SEQ ID NO:2412: (Length of Sequence = 583 Nucleotides)

TGCACCGGTG CACCAGGTGC CCGTGTGGAT TGTACAGNN ACGTGGGTNA TGAAGGTAAC CACCTACCGN GTGCACGTGG
CCNAGCAGCA GGACGTGCAC CTGACTGTNA CGAGTCTCG GCAGCATGAG CTCTCGCCAG ACTGGAACCT GCCCCGTGAG
CTCTCACCA TCCGTGTGGC CAGCACCAAC CCGTGTGTGC AGGCCTTTGA CATCTGGCTG AACTCCACTG AGTACGGGGA
GCTCTGCGAG AAGCTCCGGG CACCCATCCG CAGGGCAGCC CATGTGGTCA TCCACCAGAG CCTGGGCGAC CTNTTNTTGG
AGACATTTGC CTCCTGTGA GAGGTCAACC CGGCTACTC AGTGCCAGC AGCCAGGAGC TGGAGGCTG CATAGGCTTG
CATGCAGACA CGTGCCAACG TGAAGNTGGT GAAGACCTGC CAGGAGTCAG CCACAGGGGA GTTCCAGCAG TMTTAATTNC
CGCCCCATGT TGTGGCTTA ACTTGATNGG GAAAGTGGT TNGNCAAGCG GCAAGACCCC CTTGGGNCCT NAAACTTGT
TGGCAAACGG GGTNCCTGCA TGG

SEQ ID NO:2413: (Length of Sequence = 203 Nucleotides)

TGCTCCTCCC ACCCCTAGC CATGCAGNGG TGAATNGGG AACCCAGNN GGGGGCTGAG AAGCTCCAGG CCACCTINAG
GGAATCCAG AGGGTCTTTC TACCAGGAAG AAGTGCCCA GCTGCGTGGC CGCCGAGACC ACGGGGAGG TGATCTGGTG
GGACAAACGT TCCGTCTGCT CCGAGTCAG GAGATCGAGT CTC

SEQ ID NO:2414: (Length of Sequence = 92 Nucleotides)

AAGGGGCAGG ATGGGGCTGG GAAGTCCAAC CCCACGCATT TGGGCTCAGC CTTGGACATG GAGGCTGAC AGCTGTGTG
CTTGGGGAT CC

SEQ ID NO:2415: (Length of Sequence = 401 Nucleotides)

CTTTTCCCTT CTGTGNNCA AATGCANCAT CTNATACAC GTTGCTTAAC CTAGAANCGT GGCTCCACCG TGAATTCTAA
TTGGTCCGTG CTATCGAGGC ACTGTCCCT TAACTGGTCT CGCTCCAGTG GCCCNACTG CTTTCTTCC TCTTCCAGNA
ATGGCTCTTC GGGCCAGAG TTGAATCTC GCGATCGGA TGGGACGGA GTACCGGCCT GGGGTGTCCC AGAGCCGGA
CTGAGCTGGG GAGTCAAGAC CTCGGGCGAT GAGGGCTGAG CAAGTCGGAG TCGTAGGTCC AGTTCTTCCC CAGCTTCTCC
TGCTCCAAT CTGTGGGT CTGGGGTTC TTGCTCTCC AGCGGGGTG AGCTGCTGGT GGAAGATCC TCCCCGATC
C

SEQ ID NO:2416: (Length of Sequence = 245 Nucleotides)

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ATGTAATACA GTGTAGAAAG CGATCATGTC ATAAGCAATG ATTCTGTACA ATCATNCNGC AGAAAATTAG TTTTGGAGAA
 TTCTTGGTAA TTGAAGACCA GCAGAGCACC CCTCCCCACC CGCCCCCTAA AAGTGCTTAC AATTTCAGG GATYCTTTTC
 TTTTTCAAAG ACCCAAAGAY ACGTGGTCAG AAAAMAAAAG CTTGAAGTCT CAATGCCTAA TGTCGTGCAC ATTKNACAGG
 GAGGC

SEQ ID NO:2417: (Length of Sequence = 384 Nucleotides)

GGTTTTCGAA GATGATGGAA CATCCCATAA GCCCAGGTGT GCAGCTAACC TTTAGAAGCT GGAAAAGGCA AGGAAACATA
 TTCTGTAGAG CCTCCAGAAG GAACACACGT CTGCACACAC TTTGTTTTTA GCTCAGTGAA ACTGATTTTG GACTACTGAC
 CTTCAGAACT GTAAGATAAA TTCTGTGTGT TTTACGTTTG TGGTGTATA GAAGTACAG AAATGAATAT ACTTACCGTA
 GTTTAGAGAG AGATGGGAGG ATACTTTTTT TTCTCCCTTC TTTTGAAGG GAGGTAGGTC TCCTTAACTC CAGAGGAAAG
 ACTGTCTTT CTTCATATAG GGGCCCTTG ATTCTTAATT CATGGGAGT GTTTAGGAGA TTGA

SEQ ID NO:2418: (Length of Sequence = 1645 Nucleotides)

GTGATGGCTG CCTGAGGGG GACCATCATG TCGGAGACCG CATTTGGTGA GGTCACCC CACAGCCCAT GCCAGCCTC
 CTCGAGACTC AGGTCATCCA GCTGGTCGAT GGCTCTTTC ATACCTGGTG CCTCTCCTC TCGGGCTTGG CAGGCTTCTC
 TGGGGGCTTC TCAGATGACT CTTTTCCTT CTCTCTGTC TTGGCTAACT CCTGGCCAG CTCGAAAGT GCCTCCTTGG
 CTCCCTCTTC TACCACCTCC TCCCGTTTGG CCAACTTGCT CACGGCGTC TTGGTAGTGG CTTTGAGGCT CTCCTTGCTA
 TCAGCCCGCT GTTGATTTT GCTGGGCTG AGGTGGTAG GCACAGCCCC AGAAGCCAGG NCCTTCTGCG TGGCCACAGG
 GTAAACGAGG AAGTCCAGAT GCGAAGCTT TTCTAGGCCC TCCAAGATCT TGTMTGGGG AGCATTTCTT GGAAAAGCA
 CACGCACAT CTCTCAGTG GGATTGGCTG GTAGCCAGAC CACCAGAGCA GTGATAGAGG TAAGGTAGGG CACGGAGATC
 TCAGCCCTCT TCCCATGGG CAGCAGATG CCTGINTTG CTTTACTATT GCCTGCCAC TTTTGCATGA GGAACATCAT
 CTCTTGCTG TCCTTGACAG GGTGAGGAC ATACATGTCC AGCGGCCCA CACCATTTT GTGAAGAGG GTCAGTGGCT
 CAATGGTATT GCTGACCACA CGATATAGAG GCTCAGCCTG GATGCCAGG CGGTTTAAGT GCTGCAGAGT GAGGCGAGCC
 TCTCAATGC TACGCTTGGC TTTCCGGGAG GCATCAGGAA GCCGAGCTT CTCAGGCAG TTGAAAAGA CAACCTCAAG
 CTCAGGANAG ATAAGTTCT TCACCCAGTC GCTGTAATG CTAGAGCCCT GGNACTGCTC CTCCTCTAGC TCTGCCACTT
 TGCGCTGCAG TAGTCCATTG ATGCCTGGCA GGTGTCTGC CCCAATGTGT GTNAGTAGCA CCGAGTCAAT GCGGTCCAAG
 TNCCTTACCA GCTTCCAAA ACAGGACTTG CGATCAGAGC CACCATCCAC CAGGATGTTG AAACCATTGA CAGCAAAGAG
 GGCAGAGTCC CCAGACCAC CTGGGAAGAT GTAGCAACAA GGCTTGGAGA GCTTGAGGAA GCCCCTGAG GTGGGGGGCT
 CTAGTAGGTC AAATGGGGAT GGCACGTCCA CAGTCTCAGA GACATACTCG GAGAACTCAG CCACGCGTC CATGGTGGGC
 AGAGTGGGCT CAGGGTTTAG CCGGAGGTGC AGGGTCTCTT GGGAACTGGA TAATCCCAGG TGGCTCCAAT CACCTTCCCC
 TAAGCAGGAC ACGSTAAGGA AGGCTGTAT CCCAGGGTCT CTATTGCTGA GCAATTGGGA AATCTGGGG TTGTGAAGGA
 CCTGGGCAAA GTTTTCATAT GAGTAGGTGC CACTCTGTAG GATGAGGTCT CCCCAGGCT CTAAACTTTG CCCACTCAAG
 ATTAGTAGTT TATAAGCTGA TGAGCTGCTA AGAAGATGAT GAACCTCAGA GCTGATGCTG TCTGCACTGG GATTTACCAG
 GATGATGTC TCTAGGATCT CACTCTGGTG GCAAAGGGTC CTCTG

SEQ ID NO:2419: (Length of Sequence = 837 Nucleotides)

GGAAGGATGA GAAACAGATT INTGCTCACT TCATGGGCTG GCCTGGAATT GACGATGGTG CAAACCCAAA TNATCCTGAT
 GTAATTNATG AAGATTATGG AACTGCAGCG AATGACATCG GGGACACCAC GAACAGAAGT AATGAAATCC CTTCCACAGA
 CGTCACTGAT AAAACCGGTC GGGAACATCT CTCGGTCTAT GCTGTGGTGG TGATTGCNTC TGTGGTGGGA TTTTCCCTTT
 TGGTAATGCT GTTTCINCTT AAGTTGGCAA GACACTCCAA GTTTGGCATG AAAGGTTTTG TTTTGTTC TAAGATCCCA
 CTGGATGGGT AGCTGAAATA AAGGAAAAGA CAGAGAAAGG GGCTGTGGTG CTTGTGGT GATGCTGCCA TGTAAGCTGG
 ACTCTGGGA CTGCTGTGG CTTATCCCGG GAAGTGCTGC TTATCTGGGG TTINCTGGTA GATGTGGGCG GTGTTTGGAG

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GCTGTACTAT ATGAAGCCTG CATATACTGT GAGCTGTGAT TGGGGAACAC CAATGCAGAG GTAACCTCTCA GGCAGCTAAG
 CAGCACCTCA AGAAAACATG TTAAATTAAAT GCTTCTNITC TTACAGTAGT TCAAATACAA AACTGAAATG AAATCCCAT
 GGATTGTACT TCTNINCTGA AAAGTGTGCT TTTTGACCTT ACTGGACATT TATTGACTTA ATTGCTTCTG TTTATTAAAA
 TTGACCTGCA AAGTTAAAAA AAAATTAAAG TTGAGAACAG GTATAAGTGC ACACCTGAATA GTCTAATCTA CATGTAACAC
 ATATTNNNGT ATGATTTTCT ATACTCTAAT CAGCACT

SEQ ID NO:2420: (Length of Sequence = 1843 Nucleotides)

GAAGCTCCGG CCCAGGTGGC CGCTGGCTGC TGAGCTCAGC CCAAGGTGCG GCTGTGGTGG TGGTGGTGGC GGCTGCAGGC
 TTTGTGCTG CTGGATGTTT GCTGGCTGCA GGTTCGTCTG CTGCATCTGT AAGTTTGTGT GCTGCACCTG CTGGGTCTGC
 ACCAGGTGAG GCTGGGTGGC CAGCCGGGTG CTGGGCAGGC CCTGGTAGCT CATCATCTGG GACAGGGGCG TGSCAGCAAG
 GCTACTGTGC AGCGGGCCTA CCATGCCATG CTGCAGGGAG GGGGCCCTGT TGCTCAGGGG GCCTGGTGCC ACACTCCCCC
 GCAGAGGGTT GTATTGGTTC GGCACCATGC CGCTCTGCAG CCGGGACAGC CACTCGCATT GACCAITCAA ACTGGTGGAC
 CCGNCCACAG TGAAATTGAG GGGCCCTCCG CTGCTNGAGC CCAGGACGGT GCTGGTGCCA GAGGCCACAG GCAGGTGGGA
 GAGACGAGGT GGGCCAGTNT TAAAGGCCAG CCGGCCGCCC CCACCCANCG CCGCCATYTC GGGCTTGGCC GCCACGTCA
 GGTNCCCNAT GCCCAGGTGG GTGTGGGCA TYCCAGGCAG GTGGTTGAGG GGCACGACG GAGACTGCTG GAACGGGGAG
 GGCAGNAGTG GCGGCGAGGC CACGTCTGAC AGGTAGCCAT GGGGTGACTC CAGGGAGTCC ACGGGGAGA GCATGCCGA
 GCTGTCCAGC AGGCAGNCCT TGCGTCCCTG GGACTTCTTC CTCGTGCTT TGAGGTCCCT GGCTCCTTG CTTCACAGG
 CCAGGCCTTT GCTGCTGGGC TTGCGGACCT TCTTGCCCTG CACGCCGGC TTGAGGCTGC CCAGGTAGCC GTTGGCGAG
 CAGAGCGNGG GCGACAGGGT GGGCGTGCC CCCAGCGGC TCGTGACAGC TGCGGGCTGC GCACCAGGTT GTACTCGTCC
 AGCAGCCTCA CGATGTCTG ATGCATGCNC TCTNTGCGA TGTGCGCGG CAGGCGGTCC ATATGATCCG TGATGTCCG
 GTTGGCAAAG TGGTCCAGCA GCACCTTGGC GGTCTGTAG CTGCCCTCCC GGGCGGCCAG AAACAGGGGT GTCTCTCTCC
 TGTGTCTCTG CATATCTTTG TTAGCCCGT TCTTCAGGAG CACAAGTGG GCATCCACAT TGTTCACNGC GCGCGCCAG
 TGCAGGGCGG ACTTGCCAG GINATCTACG GCGTTGACGT CCGCGTGTGA GTTGATGAGG TCTCCAGCA TGCCCTCCAC
 GGCCAGGCGG GCAGCCAGGN TCAGTGGCGT CGTGCCATCA TGCATGCGGG CATCCAGGTC TGTGGCTCGG TTCCGGATCA
 GGATCTTGGA AGACACCTTG TGCGTCGGCA GACACAGCCG CATGCAGCGG GGTGCGGCC ATGTGTCTCT GGATGTTGGC
 ATCTGCGCTG GCCTCCAGCA GCGGCTTGGC GGCATCAGAG CGTGAGTAGC GGGCGGCCAG GTGCAAGGCG GTCTCGCCCG
 TNCGTCTGT CTGGTGTGTC AAGCTGGCGC CCTGGTAGAT GAAGTCGGAG ATGACGGCCG GCGGTCTCTC CTCTCTCTG
 CTGTGTCCCG TCTCCAGGCC GCGCCGCTG CAGGAGCGA TCATGAGCGG GGTGAAGCCA TCAGGCCCGC GGACATTGAC
 GTCCATGCG TCGCGTCAA CCTCACCTG GGGCGGTGTG GGGGCCATGG CANACATCG CAGGTACAGC GCATCCAGGT
 GCTGCTGAGT CCACTGCCCG TGGTCTGTCT GGTCTGCCAG GTGAGGAGA ACCACGGGCT CCTCGAACCG GAACCTCTTG
 GTC

SEQ ID NO:2421: (Length of Sequence = 1452 Nucleotides)

CCAGCAACTC AAATTCACCA CCTCGGACTC CTGCGACCGC ATCAAAGACG AATTTTCAGCT ACTGCAAGNT CAGTACCACA
 GCCTCAAGCT CGANTGTGAC AAGTTGGCCA GTGAGAAGTC AGAGATGCAG CGTCACTATG TGATGTACTA CGAGATGTCC
 TACGGCTTGA ACATCGAGAT GCACAAACAG GCTGAGATCG TCAAAAGGCT GAACGGGATT TGTGCCAGG TCCTGCCCTA
 CCTNTCCCAA GAGCACCAGC AGCAGGTCTT GGGAGCCATT GAGAGGGCCA AGCAGGTAC CGCTCCCGAG CTGAACCTTA
 TCATCCGACA GCAGTCCAA GCCCACCAGC TGTCCAGCT GCAGGCCCTG GCGCTGCCCT TGACCCACT ACCCGTGGG
 CTGCAGCCCG CTTCGCTGCC GCGGTGACG GCAGGCACCG GNTCTCTCTC GCTGTCCCG CTGGGTTCC CAGGCCACC
 TCTCCAGGA AGACAAGAAC GGGCAGATG GTGACACCCA CCAGGAGGAT GATGGCGAGA AGTCGGATTA GCAGGGGGC
 GGGACGGGA GGTGGGAGG GGGACAGAG GGGAGACAGA GGCACGGAGA GAAAGGAATG TTTAGACAA GACACAGCG
 ANTCTGGAT TGGCTAAACT CCCATAGTAT TTATNGTGGC CGCGGGCGG GCGCCAGCC CAGCTTGACG GCCACCTTA

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GCITTCCTCC TACCCCATTC CCGGCTTCCC TCCTCTCTCC CTGCAGCCTG GTTAGGTGGA TACCTGCCCT GACGTGTGAG
GCAAGNTAAG GCCTGGAGGG TCAGATGGGG AGACCAGGTC CCAAGGGAGC AAGACCTCGC GAGCARGCA AGCCCCNGCC
CTTCCCCCGT TTGAACATG TGTAAACGAC AGTCIGCCTG GGCCACAGCC CTCTCACCTT GGTACTGCAT GGACGNAATG
CTAGCTGCCC CTTCCCCGIN CTGGGCACCC CGAGINTCCC CGACCCCGG GTCCACAGTA TGCTCCACC TCCACCTGCC
CCACTCACCA CCTCTGNTAG TNCAGACAC CTNCAGGYCC ACCTGGTCTT CTNCCATCGC CCACAAAAGG GGGGGCAGCA
GGGACGAGCT TAGCTGAGCT GGGAGGAGCA GGGTGAGGT GGGGACCCA GGATTCCTCC TCCCTTCCC AAATAAGAT
GAGGGTACTA AAGTTGTCTT GGTTTTATT TTATTATTAT TTTTCTTT TTCCAGTATA CTAGCTGTG TTTTAAGAA
GGGATATTA AAAAAAAAAA AAAGACAAA GTGTTTTTAA AAAAAAGCAA CACCACACC TGGTGTCTGT ATATAGTCAG
CTTATCTGT GTTCAATGT CTGATCTCA CAGAGAGAAG TGGAAAATGC TGTATCAAG GTGGGCTTAG CTGTGCCTTT
CCAATAAGA TG

5 WHAT IS CLAIMED IS:

1. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS 650, 1834, and 2073;

10 or having a sequence complementary thereto.

2. A purified polynucleotide having a sequence designated as one of:

SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

15 or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

3. An isolated polynucleotide that includes a sequence designated as one of:

20 SEQ ID NO: 316 - 2421, except SEQ ID NOS: 485, 650, 1834, 2073, 2092, and 2353;

or complementary sequence thereto or, for those sequences over 150 nucleotides long, a portion thereof at least 150 nucleotides in length.

25 4. An isolated polynucleotide operably coding for a native human polypeptide or protein, which includes a region coding for the same amino acid sequence as a native human coding region corresponding to a sequence designated as one of:

SEQ ID NO: 316 - 2421.

30 5. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 6 and is one of SEQ ID NOS: 316-2421.

6. The polynucleotide of Claim 4, wherein said SEQ ID NO is listed in Table 7 and is one of SEQ ID NOS: 316-2421.

35 7. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a metabolic functional grouping and is one of SEQ ID NOS: 316-2421.

8. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 10 in a structural functional grouping and is one of SEQ ID NOS: 316-2421.

5 9. The polynucleotide of Claim 4, wherein said SEQ ID NO is identified in Table 11 in a developmental control grouping and is one of SEQ ID NOS: 316-2421.

10. An isolated polynucleotide coding for a human protein or polypeptide, which includes a coding region corresponding to the EST identified as:

10 SEQ ID NO: 316 - 2421;
or a polynucleotide complementary thereto.

11. The polynucleotide of Claim 10, wherein the SEQ ID NO is 316-1000.

15 12. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1001-1500.

13. The polynucleotide of Claim 10, wherein the SEQ ID NO is 1501-2000.

14. The polynucleotide of Claim 10, wherein the SEQ ID NO is 2001-2421.

20 15. The polynucleotide of Claim 10, wherein said polynucleotide further includes the entire sequence designated as any one of SEQ ID NOS: 316-2421.

25 16. An isolated polynucleotide comprising at least 150 bp of a sequence of Claim 10 and wherein said SEQ ID NO excludes NOS 485, 650, 1834, 2073, 2092, and 2353.

30 17. An isolated polynucleotide sequence, which hybridizes to a sequence designated as any one of SEQ ID NOS 316-2421, except SEQ ID NOS 485, 650, 1834, 2073, 2092, and 2353, or to a sequence complementary thereto, under hybridization conditions sufficiently stringent to require at least 97% base pairing.

18. A polynucleotide according to any one of Claims 4-17, in substantially purified form.

19. A construct in isolated form comprising a vector and a polynucleotide according to any one of Claims 1-17.

35 20. The construct according to Claim 19, further comprising a promoter operably linked to said polynucleotide.

21. A panel of at least 100 isolated polynucleotides having the sequences of Claim 3 or Claim 16.

22. An antisense oligonucleotide capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10.

23. A triple helix probe capable of blocking expression of any one of the polynucleotide-encoding sequences of Claim 10 having at least a 10-base homopurine or homopyrimidine sequence, said probe comprising single-stranded DNA having at least a 10-base homopurine or homopyrimidine sequence and being adapted to bind to the major groove of double stranded DNA which includes said polynucleotide-encoding sequence.

25. The polynucleotide of Claim 1, wherein said SEQ ID NO is 913.

26. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1039.

27. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1395.

28. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1567.

29. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1667.

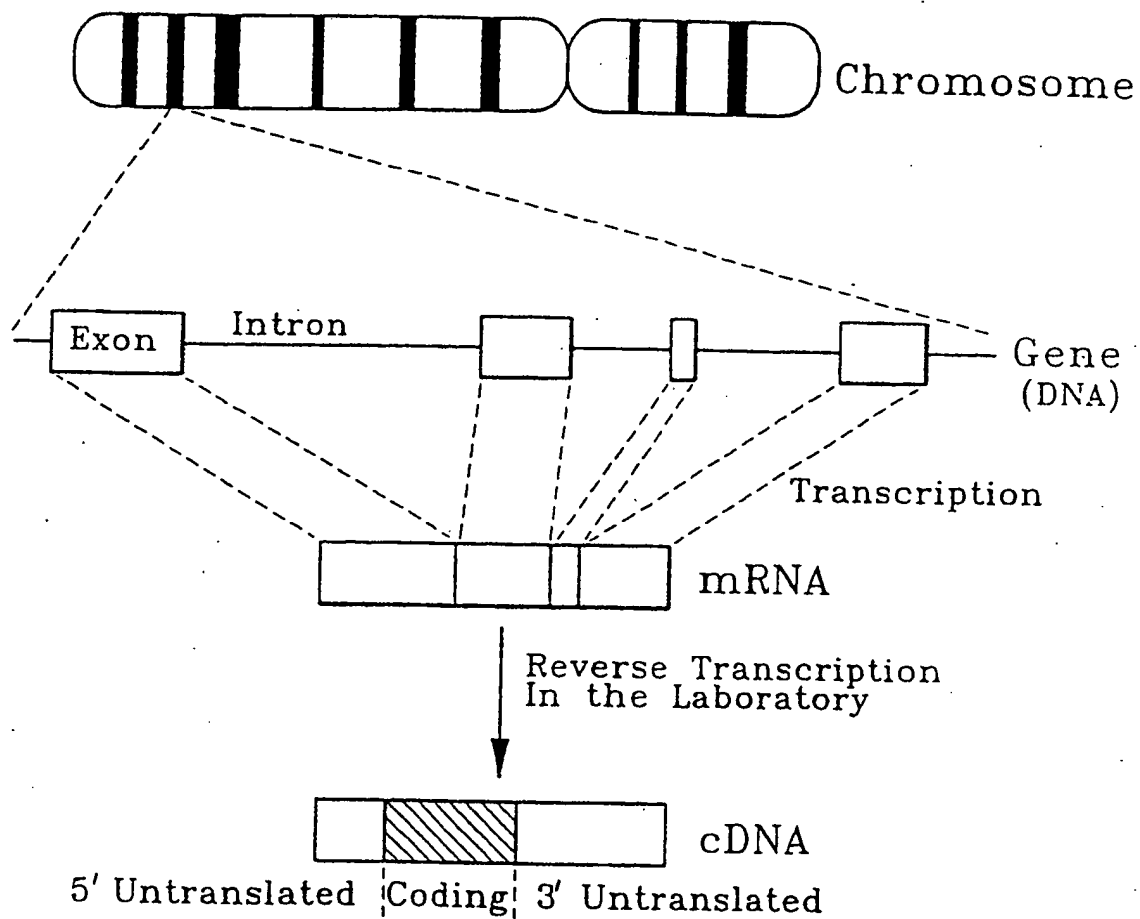
30. The polynucleotide of Claim 1, wherein said SEQ ID NO is 1704.

31. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2089.

32. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2297.

33. The polynucleotide of Claim 1, wherein said SEQ ID NO is 2302.

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**FIG. 1****SUBSTITUTE SHEET**



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/US93/01294 (22) International Filing Date: 12 February 1993 (12.02.93) (30) Priority data: 07/837,195 12 February 1992 (12.02.92) US (71) Applicant: THE UNITED STATES OF AMERICA, as represented by THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES [US/US]; Washington, DC (US). (72) Inventors: VENTER, Craig, J. ; 1718 Nordic Hill Circle, Silver Spring, MD 20906 (US). ADAMS, Mark, D. ; 12812 Sage Terrace, Germantown, MD 20874 (US). MORENO, Ruben, F. ; 14415 Coral Gables Way, North Potomac, MD 20878 (US).		(74) Agents: ALTMAN, Daniel, E. et al.; Knobbe, Martens, Olson and Bear, 620 Newport Center Drive, 16th Floor, Newport Beach, CA 92660 (US). (81) Designated States: AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i> (88) Date of publication of the international search report: 25 November 1993 (25.11.93)
(54) Title: SEQUENCES CHARACTERISTIC OF HUMAN GENE TRANSCRIPTION PRODUCT (57) Abstract Partial and complete human cDNA and genomic sequences corresponding to particular expressed sequence tags (ESTs). The ESTs are cDNA sequences that are generally between 150 and 500 base pairs in length, are derived from human brain cDNA libraries, correspond to genes transcribed in human brain, and have base sequences identified herein as SEQ ID NOS: 1-2421.		

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 93/01294

I. CLASSIFICATION OF SUBJECT MATTER (If several classification symbols apply, indicate all) ⁶		
According to International Patent Classification (IPC) or to both National Classification and IPC Int.C1.5 C 12 N 15/11 C 12 Q 1/68		
II. FIELDS SEARCHED		
Minimum Documentation Searched ⁷		
Classification System	Classification Symbols	
Int.C1.5	C 07 K C 12 N C 12 Q	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched ⁸		
III. DOCUMENTS CONSIDERED TO BE RELEVANT⁹		
Category ¹⁰	Citation of Document, ¹¹ with indication, where appropriate, of the relevant passages ¹²	Relevant to Claim No. ¹³
X	SCIENCE vol. 252, 21 June 1991, WASHINGTON, DC, USA pages 1651 - 1656 M.D. ADAMS ET AL. 'Complementary DNA Sequencing: Expressed Sequence Tags and Human genome Projects' see the whole document ---	1-11,15 -23
P, X	NATURE vol. 355, 13 February 1992, LONDON, UNITED KINGDOM pages 632 - 634 M.D. ADAMS 'Sequence Identification of 2375 human brain genes' -----	1-11,15 -23
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>¹⁰ Special categories of cited documents:</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"A" document member of the same patent family</p> </div> </div>		
IV. CERTIFICATE		
Date of the Actual Completion of the International Search	Date of Mailing of this International Search Report	
07-07-1993	22. 10. 93	
International Searching Authority	Signature of Authorized Officer	
EUR PEAN PATENT OFFICE	VAN PUTTEN A.J.	

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 93/01294

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos. because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos. because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos. because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see PCT/ISA/206 mailed on 12.08.93

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-11, 15-23(part.)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.